

WBS No: 1EEC01
Activity ID: 1EEC1000

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

WBS No: 1EEC01	Title: 881 Cluster Stabilization/Hazard Removal	Cost Risk 2	Schedule Risk 2
Activity ID: 1EEC1000	Description: 881 Cluster Stab/Hazards Removal FY00		

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
881HR001	HR Project Execution Plan	1.00	each	EE	157	157	8,409	16,382	0	24,791	4,094	28,885
881HR002	HR Work Procedures	1.00	each	EE	142	142	5,213	4,707	0	9,920	2,538	12,458
881HR003	Project Engineering	1.00	each	EE	79	79	4,205	0	0	4,205	2,047	6,252
881HR005	Develop Health/Safety/Emer. Plan	1.00	each	EE	488	488	14,621	0	0	14,621	7,119	21,740
881HR006	Collect & Develop CDPH&E Data	1.00	each	EE	385	385	13,102	2,593	0	15,694	6,379	22,073
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	457	457	0	457
Total for Activity 1EEC1000:						1,250	45,549	23,681	457	69,687	22,178	91,865

Line Item 881HR001 - HR Project Execution Plan

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Project Execution Plan Initiation and Development Breakdown of Cost Data: Item - PEP Development Units - 1)Hours 2)Dollars Unit Cost - 1)200 2)20,350 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
Factors	750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	19.67	Hours
	25	Hours	0.36123 May Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target		
Factors	750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	137.66	Hours
	175	Hours	0.36123 May Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target		
Factors	A5H	SUBCONTRACTED SRVS	P160 TECHNICAL WRITERS AND EDITOR	C104S Closure Management	Linear	4,706.85	Dollars
	26	weeks	225 Dollars per Week	1.02283 -- FY00 Escalation --	0.36123 May Earned Value Factor		
Factors	A5H	SUBCONTRACTED SRVS	P160 TECHNICAL WRITERS AND EDITOR	C104S Closure Management	Linear	11,674.67	Dollars
	14510.1	Dollars	1.02283 -- FY00 Escalation --	0.36123 May Earned Value Factor	2.17762 [SYS 061300] 2.177624 - Target		

Line Item 881HR002 - HR Work Procedures

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - HR Work Procedure Development Breakdown of Cost Data: Item - Work Procedures Units - 1)Hours 2)Dollars Unit Cost - 1)280 2)7,000 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
Factors	750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	27.53	Hours
	35	Hours	0.36123 May Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target		

WBS No: 1EEC01
Activity ID: 1EEC1000

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	27.53	Hours
Factors	35	Hours	0.36123	May Earned Value Factor				
						2.17762	ISYS 0613001	2.177624 - Target
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	86.53	Hours
Factors	110	Hours	0.36123	May Earned Value Factor				
						2.17762	ISYS 0613001	2.177624 - Target
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	4,706.85	Dollars
Factors	26	Weeks	225	Dollars per Week	1.02283 -- FY00 Escalation --	0.36123	May Earned Value Factor	
						2.17762	ISYS 0613001	2.177624 - Target

Line Item 881HR003 - Project Engineering

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Project Engineering support for Hazards Reduction activities. Breakdown of Cost Data: Item - Project Engineering support Units - 1)Hours Unit Cost - 1)100 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	78.66	Hours
	Factors	100	Hours	0.36123	Mav Earned Value Factor				
							2.17762	[SYS 061300]	2.177624 - Target

Line Item 881HR005 - Develop Health/Safety/Emer. Plan

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Develop Health,Safety,Emergency Plans Breakdown of Cost Data: Item - Develop Health,Safety,Emergency Plans Units - 1)Hours 2)Dollars Unit Cost - 1)650 2)5,500 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	55.06	Hours
Factors	70	Hours	0.36123 May Earned Value Factor						
							2.17762 ISYS 0613001	2.177624 - Target	
	750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	275.32	Hours
Factors	350	Hours	0.36123 May Earned Value Factor						
							2.17762 ISYS 0613001	2.177624 - Target	
	750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C104S	Closure Management	Linear	78.66	Hours
Factors	100	Hours	0.36123 May Earned Value Factor						
							2.17762 ISYS 0613001	2.177624 - Target	
	750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	78.66	Hours
Factors	100	Hours	0.36123 May Earned Value Factor						
							2.17762 ISYS 0613001	2.177624 - Target	

Line Item 881HR006 - Collect & Develop CDPH&E Data

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Collection & Development of CDPH&E Data							
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Activity ID: 1EEC1000

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WBS Filter 1EEC
Activity Filter *

Starts In FY *

Breakdown of Cost Data:
Item - Collection of Data for CDPH&E
Units - 1)Hours 2)Dollars
Unit Cost - 1)489 2)3,222.22
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	117.99	Hours
Factors	150	Hours	0.36123 May Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	129.01	Hours	
Factors	164	Hours	0.36123 May Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	137.66	Hours	
Factors	175	Hours	0.36123 May Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2,592.56	Dollars	
Factors	3222.22	Dollars	1.02283 -- FY00 Escalation --		0.36123 May Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target		

Line Item SYS - Contingency And Escalation

BOE										
Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	268.33	Dollars
	Factors 268.334 Dollars									
	ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	189.16	Dollars
	Factors 189.159 Dollars									

Activity ID: 1EEC1001 Description: 881 Cluster Stab/Hazards Removal FY01

Line Item		Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
881HR001		HR Project Execution Plan	1.00	each	EE	178	178	9,507	18,511	0	28,018	4,384	32,402
881HR002		HR Work Procedures	1.00	each	EE	249	249	9,679	5,321	0	15,000	4,463	19,463
881HR005		Develop Health/Safetv/Emer. Plan	1.00	each	EE	551	551	16,530	0	0	16,530	7,622	24,152
881HR006		Collect & Develop CDPH&E Data	1.00	each	EE	435	435	16,281	2,931	0	19,212	7,508	26,720
881PerRelo.-1EM		B.881 Personnel Relocation	1.00	each	HC	0	0	0	34,344	0	34,344	0	34,344
881PropLab-1EM		Laboratory Property Removal	1.00	each	HC	0	0	0	30,217	0	30,217	0	30,217
881PropLI-1EMB0		Licht Industrial Area Property Removal	1.00	each	HC	0	0	0	2,486,709	0	2,486,709	0	2,486,709
881PropT2B-1EM		Type II Industrial w/Both	1.00	each	HC	0	0	0	1,782,206	0	1,782,206	0	1,782,206
881PropT2H-1EM		Type II Industrial w/Heavy Mach	1.00	each	HC	0	0	0	1,284,846	0	1,284,846	0	1,284,846
881PropT2T-1EM		Type II Industrial w/Tanks	1.00	each	HC	0	0	0	1,492,079	0	1,492,079	0	1,492,079
SYS		Contingency And Escalation	1.00	lea	EE	0	0	0	0	454,746	454,746	0	454,746
Total for Activity 1EEC1001:							1,413	51,997	7,137,165	454,746	7,643,909	23,977	7,667,886

Line Item 881HR001 - HR Project Execution Plan

BOE		Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager.
		Experience Item Desc - Project Execution Plan Initiation and Development
		Breakdown of Cost Data:
		Item - PEP Development
		Units - 1)Hours 2)Dollars
		Unit Cost - 1)200 2)20,350
		Unit Cost Adjustment factor - None
		Revised Unit Cost - N/A
		Basis for adjustment - N/A

WBS No: 1EEC01
Activity ID: 1EEC1001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter * Starts In FY *

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Manaaement	Linear	22.23	Hours
Factors 25 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	155.63	Hours
Factors 175 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	5.321.43	Dollars
Factors 26 weeks		225 Dollars per Week	1.02283 -- FY00 Escalation --					
A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	13.189.86	Dollars
Factors 14500 Dollars		1.02283 -- FY00 Escalation --						
		0.88934 [SYS 061400] .88934200 - Svstem						

Line Item 881HR002 - HR Work Procedures

BOE

Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager.
Experience Item Desc - HR Work Procedure Development
Breakdown of Cost Data:
Item - Work Procedures
Units - 1)Hours 2)Dollars
Unit Cost - 1)280 2)7,000
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)		C104S	Closure Management	Linear	57.81	Hours
Factors	65	Hours	0.88934 [SYS 061400] .88934200 - Svstem							
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)		C104S	Closure Management	Linear	57.81	Hours
Factors	65	Hours	0.88934 [SYS 061400] .88934200 - Svstem							
750	STRAIGHT TIME BASE		P170	OTHER ADMINISTRATIVE & PROFE		C104S	Closure Management	Linear	133.40	Hours
Factors	150	Hours	0.88934 [SYS 061400] .88934200 - Svstem							
A5H	SUBCONTRACTED SRVS		0000	NONE		C104S	Closure Management	Linear	5.321.43	Dollars
Factors	26	Weeks	225	Dollars per Week		1.02283 -- FY00 Escalation --		0.88934 [SYS 061400] .88934200 - Svstem		

Line Item 881HR005 - Develop Health/Safety/Emer. Plan

BOE

Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager.
Experience Item Desc - Develop Health,Safety,Emergency Plans
Breakdown of Cost Data:
Item - Develop Health,Safety,Emergency Plans
Units - 1)Hours 2)Dollars
Unit Cost - 1)650 2)5,500
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
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WBS No: 1EEC01
Activity ID: 1EEC1001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours
Factors	70	Hours						
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C103S	Environmental Compliance	Linear	311.27	Hours
Factors	350	Hours						
750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours						
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours						
0.88934 [SYS 061400] .88934200 - Svstem								
0.88934 [SYS 061400] .88934200 - Svstem								

Line Item 881HR006 - Collect & Develop CDPH&E Data

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Collection & Development of CDPH&E Data Breakdown of Cost Data: Item - Collection of Data for CDPH&E Units - 1)Hours 2)Dollars Unit Cost - 1)489 2)3,222.22 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	155.63	Hours
	Factors	175	Hours						
								0.88934	[SYS 061400] .88934200 - Svstem
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	133.40	Hours
	Factors	150	Hours						
								0.88934	[SYS 061400] .88934200 - Svstem
	750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C103S	Environmental Compliance	Linear	145.85	Hours
	Factors	164	Hours						
								0.88934	[SYS 061400] .88934200 - System
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2,931.08	Dollars	
Factors	3222.22	Dollars		1.02283 -- FY00 Escalation --					
							0.88934	[SYS 061400] .88934200 - System	

Line Item 881PerRelo.-1EMB0170 - B.881 Personnel Relocation

BOE	Historical Data Source - Cost Estimate Derived From "Personnel Relocation Planning Template." Item Desc - Personnel Relocation Costs Breakdown of Historical Data: Item - Personnel Relocation Units - 1)Dollars Unit Cost - 1)38,046.80 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES		0000	NONE	C104S	Closure Management	Linear	34,344.17	Dollars
	Factors	432.35	Dollars per Person	88	People	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem	

Line Item 881PropLab-1EMB01902 - Laboratory Property Removal

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template."							
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WBS No: 1EEC01
Activity ID: 1EEC1001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
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Starts In FY *

Item Desc - Property Disposition Cost Model
Breakdown of Historical Data:
Item - Property Disposition
Units - 1)Dollars
Unit Cost - 1)33,475
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element		Skill		Department		Curve	Quantity	Units
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	30.217.28	Dollars		
Factors	325	Pieces of Equipment in Laboratory	103	Dollars per Item (Average)	1.015	-- FY00 Escalation --	0.88934	[SYS 061400]	.88934200	- System

Line Item 881PropLI-1EMB019025 - Light Industrial Area Property Removal

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template." Item Desc - Property Removal Costs for Light Industrial Areas Breakdown of Historical Data: Item - Property Removal Costs Units - 1)Dollars Unit Cost - 1)2,754,800 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									
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Resources		Cost Element		Skill		Department		Curve	Quantity	Units
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2.486.709.00	Dollars		
Factors	27548	Items	100	Dollars per Item (Average)	1.015	-- FY00 Escalation --	0.88934	[SYS 061400]	.88934200	- System

Line Item 881PropT2B-1EMB01902 - Type II Industrial w/Both

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template." Item Desc - Property Removal Costs from Type II Industrial Buildings with Heavy Machinery and Tanks Breakdown of Historical Data: Item - Property Removal Costs Units - 1)Dollars Unit Cost - 1)1,974,345 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									
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Resources		Cost Element		Skill		Department		Curve	Quantity	Units
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	1.782.206.00	Dollars		
Factors	9183	Items	215	Dollars per Item (Average)	1.015	-- FY00 Escalation --	0.88934	[SYS 061400]	.88934200	- System

Line Item 881PropT2H-1EMB01902 - Type II Industrial w/Heavy Mach.

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template." Item Desc - Type II Industrial Areas with Heavy Machinery Breakdown of Historical Data: Item - Property Disposition in Type II Areas Units - 1)Dollars Unit Cost - 1)1,423,365 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									
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WBS Filter 1EEC
Activity Filter *

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
		A5H SUBCONTRACTED SRVS	0000	NONE	C104S Closure Management		Linear	1,284,846.00	Dollars
Factors		9183 Items	155	Dollars per Item	1.015 -- FY00 Escalation --				

0.88934 [SYS 061400] .88934200 - Svsstem

Line Item 881PropT2T-1EMB01902 - Type II Industrial w/Tanks

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template." Item Desc - Property Disposition costs from Type II Industrial Areas w/Tanks Breakdown of Historical Data: Item - Property Disposition costs Units - 1)Dollars Unit Cost - 1)1,652,940 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources		Cost Element	Skill		Department		Curve	Quantity	Units
		A5H SUBCONTRACTED SRVS	0000	NONE	C104S Closure Management		Linear	1,492,079.00	Dollars
Factors		9183 Items	180	Dollars per Item (Average)	1.015 -- FY00 Escalation --				

0.88934 [SYS 061400] .88934200 - Svsstem

Line Item SYS - Contingency And Escalation

BOE									
Resources		Cost Element	Skill		Department		Curve	Quantity	Units
		CON CONTINGENCY	0000	NONE	ZDEPT No Department		Linear	279,356.80	Dollars
Factors		279357 Dollars							
		ESC ESCALATION	0000	NONE	ZDEPT No Department		Linear	175,389.40	Dollars
Factors		175389 Dollars							

Activity ID: 1EEC1002 Description: 881 Cluster Stab/Hazards Removal FY03

								Cost Risk	2	Schedule Risk	2		
Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost	
881HIBAPEN	Planning & Engineering	1.00	each	EE	0	0	0	74,471	0	74,471	0	74,471	
881HIBCHAR	Characterization	1.00	each	EE	0	0	0	255,910	0	255,910	0	255,910	
881HIBCSPR	Site Preparation	1.00	each	EE	0	0	0	54,161	0	54,161	0	54,161	
881HIBDPYA	Physical Activities	1.00	each	EE	0	0	0	1,026,350	0	1,026,350	0	1,026,350	
881HIBEPMG	Project Management	1.00	each	EE	0	0	0	219,352	0	219,352	0	219,352	
881HIBFSUS	Support Services	1.00	each	EE	0	0	0	201,749	0	201,749	0	201,749	
881HR001	HR Project Execution Plan	1.00	each	EE	178	178	9,507	18,511	0	28,018	3,356	31,374	
881HR002	HR Work Procedures	1.00	each	EE	249	249	9,978	5,321	0	15,299	3,522	18,821	
881HR005	Develop Health/Safetv/Emer. Plan	1.00	each	EE	551	551	16,530	0	0	16,530	5,835	22,365	
881HR006	Collect & Develop CDPH&E Data	1.00	each	EE	435	435	16,281	2,931	0	19,212	5,747	24,960	
881LABAPEN-1E	Planning & Engineering	1.00	each	EE	0	0	0	30,466	0	30,466	0	30,466	
881LABBCHR-1E	Characterization	1.00	each	EE	0	0	0	106,291	0	106,291	0	106,291	
881LABCSPR-1E	Site Preparation	1.00	each	EE	0	0	0	22,341	0	22,341	0	22,341	
881LABDPYA-1E	Physical Activities	1.00	each	EE	0	0	0	425,840	0	425,840	0	425,840	
881LABEPMG-1E	Project Management	1.00	each	EE	0	0	0	91,397	0	91,397	0	91,397	
881LABFSUS-1E	Support Services	1.00	each	EE	0	0	0	83,949	0	83,949	0	83,949	
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	406.168	406.168	0	406.168	
Total for Activity 1EEC1002:						1,413	52,296	2,619,041	406.168	3,077,505	18,460	3,095,965	

Line Item 881HIBAPEN - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Planning & Engineering Heavy Industrial Building Breakdown of Cost Data: Item - Planning & Engineering Heavy Industrial Building Units - 1)Dollars								
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WBS No: 1EEC01
Activity ID: 1EEC1002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)82,500
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	74.471.27	Dollars
Factors	0.55	Dollars per Square Foot	150000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HIBCHAR - Characterization

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Characterization Heavy Industrial Buildings
Breakdown of Cost Data:
Item - Characterization of Heavy Industrial Buildings
Units - 1)Dollars
Unit Cost - 1)283,500
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	255.910.40	Dollars
Factors	1.89	Dollars per Square Foot	150000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HIBCSPP - Site Preparation

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Plannint & Engineering Site Preparation
Breakdown of Cost Data:
Item - Planning & Engineering Site Preparation
Units - 1)Dollars
Unit Cost - 1)60,000
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	54.160.93	Dollars
Factors	0.4	Dollars per Square Foot	150000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HIBDPYA - Physical Activities

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Physical Activities Heavy Industrial Building
Breakdown of Cost Data:
Item - 1)Physical Activities Heavy Industrial Building
Units - 1)Dollars
Unit Cost - 1)1,137,000
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	54.160.93	Dollars

WBS No: 1EEC01
Activity ID: 1EEC1002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	1.026.350.00	Dollars
Factors	7.58	Dollars per Square Foot	150000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HIBPMG - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Project Management Heavy Industrial Buildings Breakdown of Cost Data: Item - Project Management Heavy Industrial Buildings Units - 1)Dollars Unit Cost - 1)243,000 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES		0000	NONE	C104S	Closure Management	Linear	219.351.80	Dollars
	Factors	1.62	Dollars per Square Foot	150000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HIBFSUS - Support Services

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Support Services Heavy Industrial Building Breakdown of Cost Data: Item - 1)Support Services Heavy Industrial Building Units - 1)Dollars Unit Cost - 1)223,500 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	201.749.50	Dollars
	Factors	1.49	Dollars per Square Foot	150000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HR001 - HR Project Execution Plan

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Project Execution Plan Initiation and Development Breakdown of Cost Data: Item - PEP Development Units - 1)Hours 2)Dollars Unit Cost - 1)200 2)20,350 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units	
	750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)		C104S	Closure Management	Linear	22.23	Hours
	Factors	25	Hours								
									0.88934	ISYS 0614001	88934200 - Svstem
	750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)		C104S	Closure Management	Linear	155.63	Hours
	Factors	175	Hours								

0.88934 [SYS 061400] .88934200 - Svstem

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	155.63	Hours
Factors	175	Hours						

0.88934 [SYS 061400] .88934200 - Svstem

WBS No: 1EEC01
Activity ID: 1EEC1002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	5,321.43	Dollars
Factors	26 weeks	225	Dollars per Week	1.02283	-- FY00 Escalation --			
0.88934 [SYS 061400] .88934200 - Svsstem								
A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	13,189.86	Dollars
Factors	14500 Dollars	1.02283	-- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svsstem								

Line Item 881HR002 - HR Work Procedures

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - HR Work Procedure Development Breakdown of Cost Data: Item - Work Procedures Units - 1)Hours 2)Dollars Unit Cost - 1)280 2)7,000 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	57.81	Hours
Factors	65	Hours	0.88934 [SYS 061400] .88934200 - Svsstem						
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	57.81	Hours	
Factors	65	Hours	0.88934 [SYS 061400] .88934200 - Svsstem						
750	STRAIGHT TIME BASE	P070	COST ESTIMATORS PLANNERS AN	C104S	Closure Management	Linear	133.40	Hours	
Factors	150	Hours	0.88934 [SYS 061400] .88934200 - Svsstem						
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	5,321.43	Dollars	
Factors	26	Weeks	225	Dollars per Week	1.02283 -- FY00 Escalation --		0.88934 [SYS 061400] .88934200 - Svsstem		

Line Item 881HR005 - Develop Health/Safety/Emer. Plan

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Develop Health,Safety,Emergency Plans Breakdown of Cost Data: Item - Develop Health,Safety,Emergency Plans Units - 1)Hours 2)Dollars Unit Cost - 1)650 2)5,500 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours
	Factors	70	Hours						
								0.88934	[SYS 061400] .88934200 - Svsstem
	750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	311.27	Hours
	Factors	350	Hours						
								0.88934	[SYS 061400] .88934200 - Svsstem
	750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C104S	Closure Management	Linear	88.93	Hours
	Factors	100	Hours						
								0.88934	[SYS 061400] .88934200 - Svsstem

WBS No: 1EEC01
Activity ID: 1EEC1002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours						

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HR006 - Collect & Develop CDPH&E Data

BOE	Estimators Experience - Estimate was developed by B.881 Facility Manager with over 20 years experience deactivating and decommissioning nuclear facilities, including the past five years at RFETS as the Maintenance Manager and Facility Manager. Experience Item Desc - Collection & Development of CDPH&E Data Breakdown of Cost Data: Item - Collection of Data for CDPH&E Units - 1)Hours 2)Dollars Unit Cost - 1)489 2)3,222.22 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	155.63	Hours
	Factors	175	Hours						

0.88934 [SYS 061400] .88934200 - Svstem

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	133.40	Hours
Factors	150	Hours						

0.88934 [SYS 061400] .88934200 - Svstem

750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	145.85	Hours
Factors	164	Hours						

0.88934 [SYS 061400] .88934200 - Svstem

A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2,931.08	Dollars
Factors	3222.22	Dollars	1.02283 -- FY00 Escalation --					

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881LABAPEN-1E0088102 - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Planning & Engineering Laboratories Breakdown of Cost Data: Item - Planning & Engineering Laboratories Units - 1)Dollars Unit Cost - 1)33,750 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	30,465.52	Dollars
	Factors	0.45	Dollars per Square Foot	75000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881LABBCHR-1E0088102 - Characterization

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Characterization of Laboratories Breakdown of Cost Data: Item - Characterization of Laboratories Units - 1)Dollars Unit Cost - 1)117,750 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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WBS No: 1EEC01
Activity ID: 1EEC1002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	106.290.80	Dollars
<i>Factors</i> 1.57 Dollars per Square Foot 75000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881LABCSPR-1E0088102 - Site Preparation

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Site Preparation for Laboratories Breakdown of Cost Data: Item - Site Preparation for Laboratories Units - 1)Dollars Unit Cost - 1)24,750 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	22.341.38	Dollars
<i>Factors</i> 0.33 Dollars per Square Foot 75000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881LABDPYA-1E0088102 - Physical Activities

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Physical Activities for Laboratories Breakdown of Cost Data: Item - Physical Activities for Laboratories Units - 1)Dollars Unit Cost - 1)471,750 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	425.840.30	Dollars
<i>Factors</i> 6.29 Dollars per Square Foot 75000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881LABEPMG-1E0088102 - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Project Management for Laboratories Breakdown of Cost Data: Item - Project Management for Laboratories Units - 1)Dollars Unit Cost - 1)101,250 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	91.396.56	Dollars
<i>Factors</i> 1.35 Dollars per Square Foot 75000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881LABFSUS-1E0088102 - Support Services

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Support Services for Laboratories Breakdown of Cost Data: Item - Support Services for Laboratories								
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WBS No: 1EEC01
Activity ID: 1EEC1002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Units - 1)Dollars
Unit Cost - 1)93,000
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	83.949.44
Factors	1.24	Dollars per Square Foot	75000	Square Feet	1.015	-- FY00 Escalation --	

0.88934 [SYS 061400] .88934200 - Ssystem

Line Item SYS - Contingency And Escalation

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	280.469.50
Factors	280470	Dollars					
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	125.698.10
Factors	125698	Dollars					

WBS No: 1EEC03 Title: 883 Cluster Stabilization/Hazard Removal

Activity ID: 1EEC3001 Description: B883 Uranium D-238 Removal Operations

Cost Risk 4 Schedule Risk 4

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
883HIBAPEN	Planning & Engineering	1.00	each	EE	0	0	0	19,859	0	19,859	0	19,859
883HIBBCHR	Characterization	1.00	each	EE	0	0	0	68,243	0	68,243	0	68,243
883HIBCSPR	Site Preparation	1.00	each	EE	0	0	0	14,443	0	14,443	0	14,443
883HIBDPYA	Physical Activities	1.00	each	EE	0	0	0	273,693	0	273,693	0	273,693
883HIBEPMG	Project Management	1.00	each	EE	0	0	0	58,494	0	58,494	0	58,494
883HIBFSUS	Support Services	1.00	each	EE	0	0	0	53,800	0	53,800	0	53,800
NPMCWM0200	Strategy/Methodology	1.00	ea	HC	27	27	1,054	502	0	1,556	366	1,922
NPMCWM0201	Procurement	1.00	ea	HC	0	0	0	8,187	0	8,187	0	8,187
NPMCWM0202	Engineering Design Package	1.00	ea	HC	249	249	8,338	250	0	8,588	2,897	11,485
NPMCWM0203	Authorization Basis	1.00	ea	HC	78	78	2,553	1,505	0	4,058	887	4,945
NPMCWM0204	Remove Sludge/Debris	1.00	ea	HC	413	413	9,320	0	0	9,320	3,239	12,558
NPMCWM0205	Rinse Operations	1.00	ea	HC	213	213	4,516	6,428	0	10,944	1,569	12,513
NPMCWM0206	Close Secondary Containment	1.00	ea	HC	43	43	885	3,346	0	4,231	308	4,539
NPMCWM0207	Drain & Isolate	1.00	ea	HC	178	178	3,844	0	0	3,844	1,336	5,179
NPMCWM0208	Closure Certification	1.00	ea	HC	36	36	1,901	9,027	0	10,928	661	11,589
NPMCWM0210	Final Building Operations	1.00	ea	HC	64	64	1,327	0	0	1,327	461	1,789
NPMCWM0211	Engineering Documentation	1.00	ea	HC	14	14	487	45,191	0	45,678	169	45,847
NPMCWM1000	Survey and Pack Drums	1.00	ea	HC	8,284	8,284	192,671	606,401	0	799,072	66,954	866,026
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	350,428	350,428	0	350,428
Total for Activity 1EEC3001:						9.598	226.895	1,169.369	350.428	1,746.693	78.847	1,825.540

Line Item 883HIBAPEN - Planning & Engineering

BOE	
Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.	
Experience Item Desc - Planning & Engineering for Contaminated Area	
Breakdown of Cost Data:	
Item - Planning & Engineering for Contaminated Area	
Units - 1)Dollars	
Unit Cost - 1)22,000	
Unit Cost Adjustment factor - None	
Revised Unit Cost - None	
Basis for adjustment - N/A	
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.	

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	19.859.01	Dollars
<i>Factors</i> 0.55 Dollars per Square Foot 40000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBBCHR - Characterization

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Characterization for Contaminated Area Breakdown of Cost Data: Item - Characterization for Contaminate Area Units - 1)Dollars Unit Cost - 1)75,600 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	68.242.77	Dollars
<i>Factors</i> 1.89 Dollars per Square Foot 40000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBCSPP - Site Preparation

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Site Preparation for Contaminated Areas Breakdown of Cost Data: Item - Site Preparation for Contaminated Areas Units - 1)Dollars Unit Cost - 1)16,000 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	14.442.91	Dollars
<i>Factors</i> 0.4 Dollars per Square Foot 40000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBDPYA - Physical Activities

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Physical Activities for Contaminated Area Breakdown of Cost Data: Item - Physical Activities for Contaminated Area Units - 1)Dollars Unit Cost - 1)303,200 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	273.693.20	Dollars
<i>Factors</i> 7.58 Dollars per Square Foot 40000 Square Feet 1.015 -- FY00 Escalation --									

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBEPMG - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Project Management for Contaminated Area Breakdown of Cost Data: Item - Project Management for Contaminated Area								
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WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Units - 1)Dollars
Unit Cost - 1) 64,800
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	58.493.80
Factors	1.62	Dollars per Square Foot	40000	Square Feet	1.015	-- FY00 Escalation --	

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBFSUS - Support Services

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Support Services for Contaminated Area
Breakdown of Cost Data:
Item - Support Services for Contaminated Area
Units - 1)Dollars
Unit Cost - 1)59,600
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	53.799.86
Factors	1.49	Dollars per Square Foot	40000	Square Feet	1.015	-- FY00 Escalation --	

0.88934 [SYS 061400] .88934200 - Svstem

Line Item NPMCWM0200 - Strategy/Methodology

BOE Line Title: Strategy/Methodology
Primary Driver(s):

The estimate is comprised of the following computations:

Cost Center R3008 (Skill Code M030 Program Manager):
Straight time: (10 hr)(36.12) = \$361.2
Cost Center I0383 (Skill Code E080Nuclear Engineers):
Straight time: (4 hr)(27.82) = \$111.28
Cost Center I3168 (Skill Code P080 Health Physicists):
Straight time: (4 hr)(25.72) = \$102.88
Cost Center S3143 (Skill Code P090 Industrial Hygienists):
Straight time: (4 hr)(26.49) = \$105.96
Cost Center R0237 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (4 hr)(23.68) = \$94.72
Cost Center I0379 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (4 hr)(23.68) = \$94.72

Subcontract Services A5H
Cost Center L3175 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (12 hr)(46) = \$552

Total Activity: \$1422.76

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	K249S	Nuclear Safety & Licensing	Linear	3.56
Factors	4	Hours					

0.88934 [SYS 061400] .88934200 - Svstem

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	8.89	Hours
Factors	10	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C101S	Health & Safety	Linear	3.56	Hours
Factors	4	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	3.56	Hours
Factors	4	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C103S	Environmental Compliance	Linear	3.56	Hours
Factors	4	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	3.56	Hours
Factors	4	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	502.12	Dollars
Factors	552	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400] .88934200 - Svstem	

Line Item NPMCWM0201 - Procurement

BOE	Line Title: Procurement Cost Center: L3195 The estimate is comprised of the following computations: A5C115 Air mover \$6000 A5C115 Miscellaneous \$2000 A5C115 Portable band saw \$1000 Total Activity: \$9000 This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5H	SUBCONTRACTED SRVS	0000	NONE	C106S	Business Management Office	Linear	8.186.81	Dollars
Factors	9000	Dollars	1.02283 -- FY00 Escalation --				0.88934	[SYS 061400] .88934200 - Svstem	

Line Item NPMCWM0202 - Engineering Design Package

BOE	Line Title: Engineering Design Package Primary Driver(s): The estimate is comprised of the following computations: Cost Center L3184 (Skill Code E130 Other Engineers): Straight time: (240 hr)(30.03) = \$7,207.20 Cost Center I3051 (Skill Code E110 Quality Control Engineers): Straight time: (8 hr)(26.49) = \$211.92 Cost Center L3184 (Skill Code P170 Other Professionals): Straight time: (8 hr)(23.68) = \$189.44 Cost Center I3168 (Skill Code P080 Health Physicist): Straight time: (8 hr)(25.72) = \$205.76 Cost Center S3143 (Skill Code P090 Industrial Hygienist): Straight time: (8 hr)(26.49) = \$211.92 Cost Center I0274 (Skill Code P170 Other Professionals): Straight time: (16 hr)(23.68) = \$378.88 Total Activity: \$3600.32 This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
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WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	213.44	Hours
Factors	240	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	7.11	Hours
Factors	8	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	14.23	Hours
Factors	16	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	C105S	Work Control Center	Linear	250.12	Dollars
Factors	274.96	Prime Dollars	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item NPMCWM0203 - Authorization Basis

BOE

Line Title: Authorization Basis
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I3051 (Skill Code E110 Quality Control Engineers):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center L3184 (Skill Code P170 Other Professionals):
Straight time: (16 hr)(23.68) = \$378.88
Cost Center I3168 (Skill Code P080 Health Physicist):
Straight time: (8 hr)(25.72) = \$205.76
Cost Center S3143 (Skill Code P090 Industrial Hygienist):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center I0379 (Skill Code P170 Other Professionals):
Straight time: (8 hr)(23.68) = \$189.44
Cost Center I3081 (Skill Code E130 Other Engineers- SES/USQD):
Straight time: (16 hr)(30.03) = \$480.48
Cost Center S3172 (Skill Code E130 Other Engineers - ORC):
Straight time: (32 hr)(30.03) = \$960.96

Subcontract services: A5H
Cost Center L3195 (Skill code P070 Planners/Schedulers):
Straight time: (30 hours)(46) = \$1380.00

Total Activity: \$4019.36

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS		C105S	Work Control Center	Linear	14.23	Hours
Factors	16	Hours								
								0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS		C105S	Work Control Center	Linear	7.11	Hours
Factors	8	Hours								
								0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS		C105S	Work Control Center	Linear	28.46	Hours
Factors	32	Hours								
								0.88934	[SYS 061400] .88934200 - Svstem	

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	14.23	Hours
Factors	16	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	1.255.31	Dollars
Factors	1380	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svsstem
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	C105S	Work Control Center	Linear	250.12	Dollars
Factors	274.96	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svsstem

Line Item NPMCWM0204 - Remove Sludge/Debris

BOE

Line Title: Remove Sludge/Debris
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (160 hr)(19.32) = \$3091.20
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (160 hr)(20.23) = \$3236.80
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (80 hr)(19.32) = \$1545.60
Cost Center L3184 (Skill Code M010 1st Line Supervisor):
Straight time: (24 hr)(24.52) = \$588.48
Cost Center S3143 (Skill Code P090 Industrial Hygienist):
Straight time: (40 hr)(26.49) = \$1059.60

Total Activity: \$9521.68

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	142.29	Hours
Factors	160	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	142.29	Hours
Factors	160	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	21.34	Hours
Factors	24	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	35.57	Hours
Factors	40	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem

Line Item NPMCWM0205 - Rinse Operations

BOE

Line Title: Rinse Operations
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Straight time: (96 hr)(19.32) = \$1854.72
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (96 hr)(20.23) = \$1942.08
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (48 hr)(19.32) = \$927.36

Contract Services:
Cost Center I3027 (1 visit by Sample Team)(\$2000 per visit) = \$2,000
Cost Center I3027 Lab Analysis (3 sample)(\$1707 per sample) = \$5121

Total Activity: \$11,845.16

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	85.38	Hours
Factors	96	Hours							
							0.88934 [SYS 061400] .88934200 - Svsstem		
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours
Factors	48	Hours							
							0.88934 [SYS 061400] .88934200 - Svsstem		
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	85.38	Hours
Factors	96	Hours							
							0.88934 [SYS 061400] .88934200 - Svsstem		
A5R	MISC EXPENSES		0000	NONE	C104S	Closure Management	Linear	6.428.00	Dollars
Factors	7121	Dollars		1.015 -- FY00 Escalation --					
							0.88934 [SYS 061400] .88934200 - Svsstem		

Line Item NPMCWM0206 - Close Secondary Containment

BOE

Line Title: Close Secondary Containment
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (32 hr)(19.32) = \$618.24
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (16 hr)(19.32) = \$309.12

Contract Services:
Cost Center I3027 (1 visit by Sample Team)(\$2000 per visit) = \$2,000
Cost Center I3027 Lab Analysis (1 sample)(\$1707 per sample) = \$1707

Total Activity: \$4634.36

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	28.46	Hours
Factors	32	Hours							
							0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	14.23	Hours
Factors	16	Hours							
							0.88934	[SYS 061400] .88934200 - Svstem	
A5R	MISC EXPENSES		0000	NONE	C104S	Closure Management	Linear	3.346.24	Dollars
Factors	3707	Dollars		1.015 -- FY00 Escalation --					
							0.88934	[SYS 061400] .88934200 - Svstem	

Line Item NPMCWM0207 - Drain & Isolate

BOE

Line Title: Drain & Isolate
Primary Driver(s):
The estimate is comprised of the following computations:

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Cost Center I4261 (Skill Code C120 RCT):
Straight time: (40 hr)(19.32) = \$772.80
Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (80 hr)(19.32) = \$1545.60
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (48 hr)(20.23) = \$971.04
Cost Center I4260 (Skill Code C020 Electricians):
Straight time: (16 hr)(20.62) = \$329.92
Cost Center L3184 (Skill Code M010 1st Line Super):
Straight time: (16 hr)(24.52) = \$392.32

Total Activity: \$4011.68

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	14.23	Hours
Factors 16 Hours								
						0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours
Factors 48 Hours								
						0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors 80 Hours								
						0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	35.57	Hours
Factors 40 Hours								
						0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	14.23	Hours
Factors 16 Hours								
						0.88934 [SYS 061400]	.88934200	- System

Line Item NPMCWM0208 - Closure Certification

BOE

Line Title: Closure Certification
Primary Driver(s):

The estimate is comprised of the following computations:
Cost Center R3008 (Skill Code M030 Program Manager):
Straight time: (40 hr)(36.12) = \$1444.80

Contracted Services: A5H410 Closure Certification \$10,000

Total Activity: \$11,444.80

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	35.57	Hours
Factors 40 Hours								
						0.88934 [SYS 061400]	.88934200	- System
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Manaaement	Linear	9.026.82	Dollars
Factors 10000 Dollars								
						1.015 -- FY00 Escalation --		
						0.88934 [SYS 061400]	.88934200	- System

Line Item NPMCWM0210 - Final Building Operations

BOE

Line Title: Final Building Operations
Primary Driver(s):

The estimate is comprised of the following computations:

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (48)(19.32) = 927.36
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (24 hr)(19.32) = \$463.68

Total Activity: \$1391.04

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours

Factors 48 Hours

0.88934 [SYS 061400] .88934200 - Svstem

750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	21.34	Hours
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Factors 24 Hours

0.88934 [SYS 061400] .88934200 - Svstem

Line Item NPMCWM0211 - Engineering Documentation

BOE

Line Title: Engineering Documentation
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I0274 (Skill Code E130 Other Engineer):
Straight time: (16)(30.03) = \$480.48

Total Activity: \$480.48

Subcontract services: A5H
Cost Center L3195 (Skill Code M030 Project Manager):
Straight time: (360 hr)(46) = \$16,560

Total Activity: \$94,491.64

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	14.23	Hours

Factors 16 Hours

0.88934 [SYS 061400] .88934200 - Svstem

A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	45.191.20	Dollars
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Factors 49680 Dollars

1.02283 -- FY00 Escalation --

0.88934 [SYS 061400] .88934200 - Svstem

Line Item NPMCWM1000 - Survey and Pack Drums

BOE

6 Operation Support Specialists x 83 days x 9 hrs per day = 4482 hrs
CC I4230, R060

1 Foreman x 83 days x 9 hrs per day - 747 hrs
CC L3175 M010

4 RCTs x 83 days x 9 hrs per day = 2988 hrs
CC I4231 T120

1 Radiological Operations Foreman x 83 days x 2 hrs per day = 166 hrs
CC I3168 E160

1 Project Manager x 83 days x 9 hrs per day - 747 hrs
CC L3195 A5H, M030

1 Calibration Technician x 83 days x .5 hrs per day - 41.5 hrs
CC I4232, T190

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Traffic/Freight Support = 60 hrs, CC D0328

1 Health & Safety Representative x 83 days x 1 hr per day - 83 hrs
CC D0448, P090

1 Central Planner x 83 days x 1 hr per day - 83 hrs
CC S3144, P070

1 Documentation Support x 83 days x 9 hrs per day - 747 hrs
CC L3175, G030

Subcontract Services: A5H
Moving/Freight to MSC-Oak Ridge for disposal:
\$3.30/lb, 194,000 lbs - \$640,200
Trucking costs: \$5000 per truck x 10 trucks - \$50,000
CC D0327
Total Subcontracted Services \$690,200

LATA Corporate Support @ 600 hrs x \$46/hr = 27,600

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C104S	Closure Management	Linear	147.63	Hours
Factors	166	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							664.34	Hours
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	C104S	Closure Management	Linear	664.34	Hours
Factors	747	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							53.36	Hours
750	STRAIGHT TIME BASE	L090	GENERAL LABORER	KE10H	Indust/Site Srvs Steelworkers	Linear	53.36	Hours
Factors	60	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							664.34	Hours
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	664.34	Hours
Factors	747	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							2,657.35	Hours
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	2,657.35	Hours
Factors	2988	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							73.82	Hours
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	73.82	Hours
Factors	83	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							3,986.03	Hours
750	STRAIGHT TIME BASE	R010	CHEMICAL SYSTEMS OPERATOR (KE10H	Indust/Site Srvs Steelworkers	Linear	3,986.03	Hours
Factors	4482	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							36.91	Hours
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Srvs Steelworkers	Linear	36.91	Hours
Factors	41.5	Hours						
0.88934 ISYS 0614001.88934200 - Svstem							25,106.22	Dollars
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	25,106.22	Dollars
Factors	27600	Dollars	1.02283 -- FY00 Escalation --					
0.88934 ISYS 0614001.88934200 - Svstem							3,397.53	Dollars
A5H	SUBCONTRACTED SRVS	P070	COST ESTIMATORS PLANNERS AN	C104S	Closure Management	Linear	3,397.53	Dollars
Factors	83	Hours	45	Dollars per Hour	1.02283 -- FY00 Escalation --			
0.88934 ISYS 0614001.88934200 - Svstem							577,897.10	Dollars
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	577,897.10	Dollars
Factors	640200	Dollars	1.015 -- FY00 Escalation --					
0.88934 ISYS 0614001.88934200 - Svstem								

WBS No: 1EEC03
Activity ID: 1EEC3001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	246.821.10 Dollars
Factors 246821 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	103.607.30 Dollars
Factors 103607 Dollars							

Activity ID: 1EMC019145 Description: B. 883 Hazards Reduction - Contaminated Area

Cost Risk 4 Schedule Risk 4

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
883HIBAPEN	Planning & Engineering	0.00	each	EE	#Num!	0	0	0	0	0	0	0
883HIBBCHR	Characterization	0.00	each	EE	#Num!	0	0	0	0	0	0	0
883HIBCSPR	Site Preparation	0.00	each	EE	#Num!	0	0	0	0	0	0	0
883HIBDPYA	Physical Activities	0.00	each	EE	#Num!	0	0	0	0	0	0	0
883HIBEPMG	Project Management	0.00	each	EE	#Num!	0	0	0	0	0	0	0
883HIBFSUS	Support Services	0.00	each	EE	#Num!	0	0	0	0	0	0	0
Total for Activity 1EMC019145:						0	0	0	0	0	0	0

Line Item 883HIBAPEN - Planning & Engineering

BOE

Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Planning & Engineering for Contaminaeted Area
Breakdown of Cost Data:
Item - Planning & Engineering for Contaminated Area
Units - 1)Dollars
Unit Cost - 1)22,000
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	19.859.01 Dollars
Factors 0.55 Dollars per Square Foot 40000 Square Feet 1.015 -- FY00 Escalation -- 0.88934 [SYS 061400] .88934200 - Svstem							

Line Item 883HIBBCHR - Characterization

BOE

Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Characterization for Contaminated Area
Breakdown of Cost Data:
Item - Characterization for Contaminate Area
Units - 1)Dollars
Unit Cost - 1)75,600
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	68.242.77 Dollars
Factors 1.89 Dollars per Square Foot 40000 Square Feet 1.015 -- FY00 Escalation -- 0.88934 [SYS 061400] .88934200 - Svstem							

Line Item 883HIBCSPR - Site Preparation

BOE

Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Site Preparation for Contaminated Areas
Breakdown of Cost Data:
Item - Site Preparation for Contaminated Areas
Units - 1)Dollars

WBS No: 1EEC03
Activity ID: 1EMC019145

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)16,000
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	14.442.91	Dollars
Factors	0.4	Dollars per Square Foot	40000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBDPYA - Physical Activities

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Physical Activities for Contaminated Area
Breakdown of Cost Data:
Item - Physical Activities for Contaminated Area
Units - 1)Dollars
Unit Cost - 1)303,200
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	273.693.20	Dollars
Factors	7.58	Dollars per Square Foot	40000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBEPMG - Project Management

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Project Management for Contaminated Area
Breakdown of Cost Data:
Item - Project Management for Contaminated Area
Units - 1)Dollars
Unit Cost - 1) 64,800
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	58.493.80	Dollars
Factors	1.62	Dollars per Square Foot	40000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 883HIBFSUS - Support Services

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Support Services for Contaminated Area
Breakdown of Cost Data:
Item - Support Services for Contaminated Area
Units - 1)Dollars
Unit Cost - 1)59,600
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear		

WBS No: 1EEC03
Activity ID: 1EMC019145

Rocky Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	53,799.86	Dollars
Factors	1.49	Dollars per Square Foot	40000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - System

Activity ID: 1EMCWM9012 Description: RCRA Closure of B883 Nitric Acid PWS

Cost Risk 4 Schedule Risk 4

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
NPMCWM0200	Strategy/Methodology	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0201	Procurement	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0202	Engineering Design Package	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0203	Authorization Basis	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0204	Remove Sludge/Debris	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0205	Rinse Operations	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0206	Closure Secondary Containment	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0207	Drain & Isolate	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0208	Closure Certification	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0210	Final Building Operations	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
NPMCWM0211	Engineering Documentation	0.00	ea	HC	#Num!	0	0	0	0	0	0	0
Total for Activity 1EMCWM9012:						0	0	0	0	0	0	0

Line Item NPMCWM0200 - Strategy/Methodology

BOE

Line Title: Strategy/Methodology
Primary Driver(s):

The estimate is comprised of the following computations:

Cost Center R3008 (Skill Code M030 Program Manager):
Straight time: (10 hr)(36.12) = \$361.2
Cost Center I0383 (Skill Code E080Nuclear Engineers):
Straight time: (4 hr)(27.82) = \$111.28
Cost Center I3168 (Skill Code P080 Health Physicists):
Straight time: (4 hr)(25.72) = \$102.88
Cost Center S3143 (Skill Code P090 Industrial Hygienists)
Straight time: (4 hr)(26.49) = \$105.96
Cost Center R0237 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (4 hr)(23.68) = \$94.72
Cost Center I0379 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (4 hr)(23.68) = \$94.72

Subcontract Services A5H
Cost Center L3175 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (12 hr)(46) = \$552

Total Activity: \$1422.76

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	E080 NUCLEAR (CRITICALITY) ENGINEER	K249S Nuclear Safety & Licensing	Linear	3.56	Hours
Factors	4	Hours			
0.88934 [SYS 061400] .88934200 - System					
750 STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	8.89	Hours
Factors	10	Hours			
0.88934 [SYS 061400] .88934200 - System					
750 STRAIGHT TIME BASE	P080 HEALTH PHYSICISTS	C101S Health & Safety	Linear	3.56	Hours
Factors	4	Hours			
0.88934 [SYS 061400] .88934200 - System					

WBS No: 1EEC03
Activity ID: 1EMCWM9012

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	3.56	Hours
Factors	4	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C103S	Environmental Compliance	Linear	3.56	Hours
Factors	4	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	3.56	Hours
Factors	4	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	502.12	Dollars
Factors	552	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item NPMCWM0201 - Procurement

BOE	Line Title: Procurement Cost Center: L3195 The estimate is comprised of the following computations: A5C115 Air mover \$6000 A5C115 Miscellaneous \$2000 A5C115 Portable band saw \$1000 Total Activity: \$9000 This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources		Cost Element		Skill		Department		Curve		Quantity		Units
	A5H	SUBCONTRACTED SRVS	0000	NONE	C106S	Business Management Office	Linear			8.186.81		Dollars
Factors		9000	Dollars	1.02283 -- FY00 Escalation --								
								0.88934	[SYS 061400]	.88934200 - Svstem		

Line Item NPMCWM0202 - Engineering Design Package

BOE	Line Title: Engineering Design Package Primary Driver(s): The estimate is comprised of the following computations: Cost Center L3184 (Skill Code E130 Other Engineers): Straight time: (240 hr)(30.03) = \$7,207.20 Cost Center I3051 (Skill Code E110 Quality Control Engineers): Straight time: (8 hr)(26.49) = \$211.92 Cost Center L3184 (Skill Code P170 Other Professionals): Straight time: (8 hr)(23.68) = \$189.44 Cost Center I3168 (Skill Code P080 Health Physicist): Straight time: (8 hr)(25.72) = \$205.76 Cost Center S3143 (Skill Code P090 Industrial Hygienist): Straight time: (8 hr)(26.49) = \$211.92 Cost Center I0274 (Skill Code P170 Other Professionals): Straight time: (16 hr)(23.68) = \$378.88 Total Activity: \$3600.32 This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources		Cost Element		Skill		Department		Curve		Quantity		Units
	750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear			213.44		Hours
Factors		240	Hours									
								0.88934	[SYS 061400]	.88934200 - Svstem		
	750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C101S	Health & Safety	Linear			7.11		Hours
Factors		8	Hours									
								0.88934	[SYS 061400]	.88934200 - Svstem		

WBS No: 1EEC03
Activity ID: 1EMCWM9012

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8	Hours						
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	7.11	Hours
Factors	8	Hours						
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	14.23	Hours
Factors	16	Hours						
						0.88934	ISYS 0614001 .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	C105S	Work Control Center	Linear	250.12	Dollars
Factors	274.96	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item NPMCWM0203 - Authorization Basis

BOE

Line Title: Authorization Basis
Primary Driver(s):
The estimate is comprised of the following computations:
Cost Center I3051 (Skill Code E110 Quality Control Engineers):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center L3184 (Skill Code P170 Other Professionals):
Straight time: (16 hr)(23.68) = \$378.88
Cost Center I3168 (Skill Code P080 Health Physicist):
Straight time: (8 hr)(25.72) = \$205.76
Cost Center S3143 (Skill Code P090 Industrial Hygienist):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center I0379 (Skill Code P170 Other Professionals):
Straight time: (8 hr)(23.68) = \$189.44
Cost Center I3081 (Skill Code E130 Other Engineers- SES/USQD):
Straight time: (16 hr)(30.03) = \$480.48
Cost Center S3172 (Skill Code E130 Other Engineers - ORC):
Straight time: (32 hr)(30.03) = \$960.96
Subcontract services: A5H
Cost Center L3195 (Skill code P070 Planners/Schedulers):
Straight time: (30 hours)(46) = \$1380.00
Total Activity: \$4019.36
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	14.23	Hours
Factors	16	Hours	0.88934 ISYS 0614001 .88934200 - Svstem						
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	7.11	Hours
Factors	8	Hours	0.88934 ISYS 0614001 .88934200 - Svstem						
750	STRAIGHT TIME BASE		E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	28.46	Hours
Factors	32	Hours	0.88934 ISYS 0614001 .88934200 - Svstem						
750	STRAIGHT TIME BASE		P080	HEALTH PHYSICISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8	Hours	0.88934 ISYS 0614001 .88934200 - Svstem						
750	STRAIGHT TIME BASE		P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8	Hours	0.88934 ISYS 0614001 .88934200 - Svstem						

WBS No: 1EEC03
Activity ID: 1EMCWM9012

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	14.23	Hours
Factors	16	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	1.255.31	Dollars
Factors	1380	Dollars	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svsstem
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	C105S	Work Control Center	Linear	250.12	Dollars
Factors	274.96	Prime Dollars	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svsstem

Line Item NPMCWM0204 - Remove Sludge/Debris

BOE

Line Title: Remove Sludge/Debris
Primary Driver(s):
The estimate is comprised of the following computations:
Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (160 hr)(19.32) = \$3091.20
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (160 hr)(20.23) = \$3236.80
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (80 hr)(19.32) = \$1545.60
Cost Center L3184 (Skill Code M010 1st Line Supervisor):
Straight time: (24 hr)(24.52) = \$588.48
Cost Center S3143 (Skill Code P090 Industrial Hygienist):
Straight time: (40 hr)(26.49) = \$1059.60
Total Activity: \$9521.68
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	142.29	Hours
Factors	160	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	142.29	Hours
Factors	160	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	21.34	Hours
Factors	24	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C101S	Health & Safety	Linear	35.57	Hours
Factors	40	Hours						
						0.88934	[SYS 061400]	.88934200 - Svsstem

Line Item NPMCWM0205 - Rinse Operations

BOE

Line Title: Rinse Operations
Primary Driver(s):
The estimate is comprised of the following computations:
Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (96 hr)(19.32) = \$1854.72
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (96 hr)(20.23) = \$1942.08
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (48 hr)(19.32) = \$927.36
Contract Services:

WBS No: 1EEC03
Activity ID: 1EMCWM9012

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Cost Center I3027 (1 visit by Sample Team)(\$2000 per visit) = \$2,000
Cost Center I3027 Lab Analysis (3 sample)(\$1707 per sample) = \$5121

Total Activity: \$11,845.16

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	85.38	Hours
Factors	96	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours
Factors	48	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	85.38	Hours
Factors	96	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	6.428.00	Dollars
Factors	7121	Dollars	1.015	-- FY00 Escalation --				
						0.88934 [SYS 061400] .88934200 - Svstem		

Line Item NPMCWM0206 - Close Secondary Containment

BOE

Line Title: Close Secondary Containment
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (32 hr)(19.32) = \$618.24
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (16 hr)(19.32) = \$309.12

Contract Services:
Cost Center I3027 (1 visit by Sample Team)(\$2000 per visit) = \$2,000
Cost Center I3027 Lab Analysis (1 sample)(\$1707 per sample) = \$1707

Total Activity: \$4634.36

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	28.46	Hours
Factors	32	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	14.23	Hours
Factors	16	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	3.346.24	Dollars
Factors	3707	Dollars	1.015	-- FY00 Escalation --				
						0.88934 [SYS 061400] .88934200 - Svstem		

Line Item NPMCWM0207 - Drain & Isolate

BOE

Line Title: Drain & Isolate
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4261 (Skill Code C120 RCT):
Straight time: (40 hr)(19.32) = \$772.80
Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (80 hr)(19.32) = \$1545.60
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (48 hr)(20.23) = \$971.04

WBS No: 1EEC03
Activity ID: 1EMCWM9012

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Cost Center I4260 (Skill Code C020 Electricians):
Straight time: (16 hr)(20.62) = \$329.92
Cost Center L3184 (Skill Code M010 1st Line Super):
Straight time: (16 hr)(24.52) = \$392.32

Total Activity: \$4011.68

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	14.23	Hours
Factors	16		Hours					
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours
Factors	48		Hours					
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors	80		Hours					
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	35.57	Hours
Factors	40		Hours					
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	14.23	Hours
Factors	16		Hours					
						0.88934 [SYS 061400]	.88934200	- Svstem

Line Item NPMCWM0208 - Closure Certification

BOE

Line Title: Closure Certification
Primary Driver(s):

The estimate is comprised of the following computations:
Cost Center R3008 (Skill Code M030 Program Manager):
Straight time: (40 hr)(36.12) = \$1444.80

Contracted Services: A5H410 Closure Certification \$10,000

Total Activity: \$11,444.80

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	35.57	Hours
Factors	40		Hours					
						0.88934 [SYS 061400]	.88934200	- Svstem
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	9.026.82	Dollars
Factors	10000		Dollars	1.015	-- FY00 Escalation --			
						0.88934 [SYS 061400]	.88934200	- Svstem

Line Item NPMCWM0210 - Final Building Operations

BOE

Line Title: Final Building Operations
Primary Driver(s):

The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (48)(19.32) = 927.36
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (24 hr)(19.32) = \$463.68

Total Activity: \$1391.04

WBS No: 1EEC03
Activity ID: 1EMCWM9012

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter * Starts In FY *

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours
Factors 48 Hours								
						0.88934 [SYS 061400]	.88934200 - System	
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	21.34	Hours
Factors 24 Hours								

0.88934 [SYS 061400] .88934200 - System

Line Item NPMCWM0211 - Engineering Documentation

BOE

Line Title: Engineering Documentation
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I0274 (Skill Code E130 Other Engineer):
Straight time: (16)(30.03) = \$480.48

Total Activity: \$480.48

Subcontract services: A5H
Cost Center L3195 (Skill Code M030 Project Manager):
Straight time: (360 hr)(46) = \$16,560

Total Activity: \$94,491.64

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	14.23	Hours
Factors 16 Hours								
						0.88934 [SYS 061400]	.88934200 - System	
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	45.19120	Dollars
Factors 49680 Dollars								

1.02283 -- FY00 Escalation --

0.88934 [SYS 061400] .88934200 - System

WBS No: 1EEC05 Title: 865 Cluster Stabilization/Hazard Removal

Activity ID: 1EEC5000 Description: 865 Cluster Stab/Hazards Removal FY00

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
881HR001	HR Project Execution Plan	1.00	each	EE	157	157	8,409	16,382	0	24,791	4,094	28,885
881HR002	HR Work Procedures	1.00	each	EE	142	142	5,213	4,707	0	9,920	2,538	12,458
881HR003	Project Engineering	1.00	each	EE	79	79	4,205	0	0	4,205	2,047	6,252
881HR005	Develop Health/Safety/Emer. Plan	1.00	each	EE	488	488	14,621	0	0	14,621	7,119	21,740
881HR006	Collect & Develop CDPH&E Data	1.00	each	EE	385	385	14,401	2,593	0	16,994	7,012	24,006
SYS	Contingency And Escalation	1.00	lea	EE	0	0	0	0	467	467	0	467
Total for Activity 1EEC5000:						1,250	46,848	23,681	467	70,996	22,811	93,807

Line Item 881HR001 - HR Project Execution Plan

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.

Experience Item Desc - Project Execution Plan Initiation and Development

Breakdown of Cost Data:

Item - PEP Development

Units - 1)Hours 2)Dollars

Unit Cost - 1)200 2)20,350

Unit Cost Adjustment factor - None

WBS No: 1EEC05
Activity ID: 1EEC5000

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter * Starts In FY *

Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	19.67	Hours
Factors	25 Hours	0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	137.66	Hours
Factors	175 Hours	0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	4.706.85	Dollars
Factors	26 weeks	225 Dollars per Week	1.02283 -- FY00 Escalation --		0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target	
A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	11.674.67	Dollars
Factors	14510.1 Dollars	1.02283 -- FY00 Escalation --		0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target		

Line Item 881HR002 - HR Work Procedures

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - HR Work Procedure Development
Breakdown of Cost Data:
Item - Work Procedures
Units - 1)Hours 2)Dollars
Unit Cost - 1)280 2)7,000
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	27.53	Hours
Factors	35 Hours	0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	27.53	Hours
Factors	35 Hours	0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	86.53	Hours
Factors	110 Hours	0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target				
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	4.706.85	Dollars
Factors	26 Weeks	225 Dollars per Week	1.02283 -- FY00 Escalation --		0.36123 Mav Earned Value Factor		2.17762 [SYS 061300] 2.177624 - Target	

Line Item 881HR003 - Project Engineering

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Project Engineering support for Hazards Reduction
Breakdown of Cost Data:
Item - Project Engineering support for Hazards Reduction
Units - 1)Hours
Unit Cost - 1)100
Unit Cost Adjustment factor - None
Revised Unit Cost - None

WBS No: 1EEC05
Activity ID: 1EEC5000

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	78.66	Hours
	Factors	100	Hours	0.36123	May Earned Value Factor				

2.17762 [SYS 061300] 2.177624 - Target

Line Item 881HR005 - Develop Health/Safety/Emer. Plan

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.									
	Experience Item Desc - Develop Health,Safety,Emergency Plans Breakdown of Cost Data: Item - Develop Health,Safety,Emergency Plans Units - 1)Hours 2)Dollars Unit Cost - 1)650 2)5,500 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	55.06	Hours
	Factors	70	Hours	0.36123	May Earned Value Factor				

2.17762 [SYS 061300] 2.177624 - Target

750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	275.32	Hours
Factors	350	Hours	0.36123	May Earned Value Factor				

2.17762 [SYS 061300] 2.177624 - Target

750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C104S	Closure Management	Linear	78.66	Hours
Factors	100	Hours	0.36123	May Earned Value Factor				

2.17762 [SYS 061300] 2.177624 - Target

750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	78.66	Hours
Factors	100	Hours	0.36123	May Earned Value Factor				

2.17762 [SYS 061300] 2.177624 - Target

Line Item 881HR006 - Collect & Develop CDPH&E Data

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Collection & Development of CDPH&E Data Breakdown of Cost Data: Item - Collection of Data for CDPH&E Units - 1)Hours 2)Dollars Unit Cost - 1)489 2)3,222.22 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	137.66	Hours
	Factors	175	Hours	0.36123	May Earned Value Factor				

2.17762 [SYS 061300] 2.177624 - Target

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	117.99	Hours
Factors	150	Hours	0.36123	May Earned Value Factor				

2.17762 [SYS 061300] 2.177624 - Target

WBS No: 1EEC05
Activity ID: 1EEC5000

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	129.01	Hours
Factors	164	Hours	0.36123	May Earned Value Factor				
						2.17762	[SYS 061300]	2.177624 - Target
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2,592.56	Dollars
Factors	3222.22	Dollars	1.02283	-- FY00 Escalation --	0.36123	May Earned Value Factor		
						2.17762	[SYS 061300]	2.177624 - Target

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	274.00	Dollars
Factors	273.996 Dollars							
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	193.15	Dollars
Factors	193.151 Dollars							

Activity ID: 1EEC5001 Description: 865 Cluster Stab/Hazards Removal FY01

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
881HR001	HR Project Execution Plan	1.00	each	EE	178	178	9,507	18,511	0	28,018	4,384	32,402
881HR002	HR Work Procedures	1.00	each	EE	249	249	9,679	5,321	0	15,000	4,463	19,463
881HR005	Develop Health/Safety/Emer. Plan	1.00	each	EE	551	551	16,530	0	0	16,530	7,622	24,152
881HR006	Collect & Develop CDPH&E Data	1.00	each	EE	435	435	14,812	2,931	0	17,743	6,830	24,574
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	6,276	6,276	0	6,276
Total for Activity 1EEC5001:						1,413	50,528	26,764	6,276	83,568	23,300	106,867

Line Item 881HR001 - HR Project Execution Plan

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Project Execution Plan Initiation and Development
Breakdown of Cost Data:
Item - PEP Development
Units - 1)Hours 2)Dollars
Unit Cost - 1)200 2)20,350
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)		C104S	Closure Management	Linear	155.63	Hours
Factors	175	Hours								
								0.88934	[SYS 061400] .88934200 - System	
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)		C104S	Closure Management	Linear	22.23	Hours
Factors	25	Hours								
								0.88934	[SYS 061400] .88934200 - System	
A5H	SUBCONTRACTED SRVS		P160	TECHNICAL WRITERS AND EDITOR		C104S	Closure Management	Linear	5,321.43	Dollars
Factors	26	weeks	225	Dollars per Week		1.02283	-- FY00 Escalation --			
								0.88934	[SYS 061400] .88934200 - System	
A5H	SUBCONTRACTED SRVS		P160	TECHNICAL WRITERS AND EDITOR		C104S	Closure Management	Linear	13,189.86	Dollars
Factors	14500	Dollars	1.02283	-- FY00 Escalation --						
								0.88934	[SYS 061400] .88934200 - System	

Line Item 881HR002 - HR Work Procedures

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and

WBS No: 1EEC05
Activity ID: 1EEC5001

Rockv Flats Closure Proiect
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - HR Work Procedure Development
Breakdown of Cost Data:
Item - Work Procedures
Units - 1)Hours 2)Dollars
Unit Cost - 1)280 2)7,000
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	57.81	Hours
Factors	65	Hours							
							0.88934	ISYS 0614001 .88934200 - Svstem	
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	57.81	Hours
Factors	65	Hours							
							0.88934	ISYS 0614001 .88934200 - Svstem	
	750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	133.40	Hours
Factors	150	Hours							
							0.88934	ISYS 0614001 .88934200 - Svstem	
	A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	5.321.43	Dollars
Factors	26	Weeks	225	Dollars per Week	1.02283	-- FY00 Escalation --			
							0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item 881HR005 - Develop Health/Safety/Emer. Plan

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Develop Health,Safety,Emergency Plans Breakdown of Cost Data: Item - Develop Health,Safety,Emergency Plans Units - 1)Hours 2)Dollars Unit Cost - 1)650 2)5,500 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A								
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours
Factors	70	Hours							
							0.88934	ISYS 0614001 .88934200 - Svstem	
	750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	311.27	Hours
Factors	350	Hours							
							0.88934	ISYS 0614001 .88934200 - Svstem	
	750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours							
							0.88934	ISYS 0614001 .88934200 - Svstem	
	750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours							
							0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item 881HR006 - Collect & Develop CDPH&E Data

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.								
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WBS No: 1EEC05
Activity ID: 1EEC5001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Experience Item Desc - Collection & Development of CDPH&E Data
Breakdown of Cost Data:
Item - Collection of Data for CDPH&E
Units - 1)Hours 2)Dollars
Unit Cost - 1)400 2)6850
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	133.40
Factors	150	Hours					
0.88934 [SYS 061400] .88934200 - Svstem							
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	155.63
Factors	175	Hours					
0.88934 [SYS 061400] .88934200 - Svstem							
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	145.85
Factors	164	Hours					
0.88934 [SYS 061400] .88934200 - Svstem							
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2.931.08
Factors	3222.22	Dollars	1.02283 -- FY00 Escalation --				
0.88934 [SYS 061400] .88934200 - Svstem							

Line Item SYS - Contingency And Escalation

BOE

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	3.847.82
Factors	3847.82	Dollars					
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	2.428.19
Factors	2428.19	Dollars					

Activity ID: 1EEC5002 Description: 865 Cluster Stab/Hazards Removal FY02

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
1-1EMC210025	Remove Racks of Metal Stock-Five Racks	1.00	each	EE	167	167	4.233	6.679	0	10.913	1.494	12.407
1-1EMC230025	Record File Disposition	1.00	each	EE	246	246	6.961	15.569	0	22.530	2.457	24.987
10-1EMC230025	Disassemble Beryllium Permacon	1.00	each	EE	315	315	9.318	16.776	0	26.094	3.289	29.383
11-1EMC230025	Re-pack Existing Waste Containers-CA	1.00	each	EE	2,260	2,260	58.962	86.067	0	145.029	20.814	165.843
12-1EMC230025	Remove Caustic Scrubber	1.00	each	EE	720	720	19.125	14.540	0	33.665	6.751	40.416
13-1EMC230025	Remove 24K Volt Sutton Press Switch Gear	1.00	each	EE	863	863	20.649	10.349	0	30.997	7.289	38.286
14-1EMC230025	Remove Electrical Service Panels	1.00	each	EE	1,277	1,277	32.700	150.482	0	183.182	11.543	194.725
15-1EMC230025	Additional Oversight	1.00	each	EE	6,439	6,439	142.363	0	0	142.363	50.254	192.617
2-1EMC210025	Disposition Used Pieces of Machinery with PREs	1.00	each	EE	16	16	771	3.437	0	4.208	272	4.480
2-1EMC230025	Complete RCRA Closure	1.00	each	EE	3,683	3,683	96.691	48.821	0	145.512	34.132	179.644
3-1EMC210025	Disposition Used Machinery without PREs	1.00	each	EE	56	56	1.592	1.584	0	3.175	562	3.737
3-1EMC230025	Disconnect Remove CO2 System	1.00	each	EE	431	431	12.440	12.798	0	25.238	4.391	29.629
4-1EMC210025	Empty Carpenters Shop	1.00	each	EE	58	58	1.527	1.660	0	3.187	539	3.726
4-1EMC230025	Close and Decontaminate Met. Labs	1.00	each	EE	2,478	2,478	63.794	54.459	0	118.254	22.519	140.773
5-1EMC210025	Remove Carpenters Shop	1.00	each	EE	39	39	1.272	1.296	0	2.569	449	3.018
5-1EMC230025	Remove Cooling Loop, CT#4 & Heat Exchanger	1.00	each	EE	2,620	2,620	67.508	64.334	0	131.842	23.830	155.672
6-1EMC210025	Empty/Consolidate Four Cargo Containers	1.00	each	EE	88	88	2.445	7.320	0	9.766	863	10.629
6-1EMC230025	Remove Equipment-Cold Machine Shop	1.00	each	EE	2,260	2,260	59.371	69.553	0	128.924	20.958	149.882
7-1EMC210025	Survey/Remove Cargo Containers	1.00	each	EE	56	56	1.297	1.893	0	3.190	458	3.648
7-1EMC230025	Equipment Removal Beryllium Shop	1.00	each	EE	2,260	2,260	58.962	76.971	0	135.933	20.814	156.746
8-1EMC230025	Drain Fluids-Large Machines	1.00	each	EE	1,161	1,161	29.793	39.653	0	69.445	10.517	79.962

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

865BESAPEN-1E	Planning & Engineering	1.00	each	EE	0	0	0	1,273	0	1,273	0	1,273
865BESBCHR-1E	Characterization	1.00	each	EE	0	0	0	4,495	0	4,495	0	4,495
865BESCSPR-1E	Site Preparation	1.00	each	EE	0	0	0	948	0	948	0	948
865BESDPYA-1E	Physical Activities	1.00	each	EE	0	0	0	18,009	0	18,009	0	18,009
865BESEPMG-1E	Project Management	1.00	each	EE	0	0	0	3,845	0	3,845	0	3,845
865HIBAPEN-1E	Planning & Engineering	1.00	each	EE	0	0	0	18,370	0	18,370	0	18,370
865HIBBCHR-1E	Characterization	1.00	each	EE	0	0	0	63,125	0	63,125	0	63,125
865HIBCSPR-1E	Site Preparation	1.00	each	EE	0	0	0	13,360	0	13,360	0	13,360
865HIBDPYA-1E	Physical Activities	1.00	each	EE	0	0	0	253,166	0	253,166	0	253,166
865HIBEPMG-1E	Project Management	1.00	each	EE	0	0	0	54,107	0	54,107	0	54,107
865HIBFSUS-1E	Support Services	1.00	each	EE	0	0	0	49,765	0	49,765	0	49,765
865METAPEN-1E	Planning & Engineering	1.00	each	EE	0	0	0	406	0	406	0	406
865METBCHR-1E	Characterization	1.00	each	EE	0	0	0	1,417	0	1,417	0	1,417
865METCSPR-1E	Site Preparation	1.00	each	EE	0	0	0	298	0	298	0	298
865METDPYA-1E	Physical Activities	1.00	each	EE	0	0	0	5,678	0	5,678	0	5,678
865METEPMG-1E	Project Management	1.00	each	EE	0	0	0	1,219	0	1,219	0	1,219
865METFSUS-1E	Support Services	1.00	each	EE	0	0	0	1,119	0	1,119	0	1,119
865PropLI-1EMC0	B.865 Light Industrial Area	1.00	each	HC	0	0	0	697,683	0	697,683	0	697,683
865PropT2B-1EM	B.865 Type II w/Both	1.00	each	HC	0	0	0	750,106	0	750,106	0	750,106
865PropT2H-1EM	B.865 Type II w/Heavy Machinery	1.00	each	HC	0	0	0	540,774	0	540,774	0	540,774
865PropT2T-1EM	B.865 Type II w/Tanks	1.00	each	HC	0	0	0	627,996	0	627,996	0	627,996
865YRDAPEN-1E	Planning & Engineering	1.00	each	EE	0	0	0	767	0	767	0	767
865YRDBCHR-1E	Characterization	1.00	each	EE	0	0	0	2,753	0	2,753	0	2,753
865YRDCSPR-1E	Site Preparation	1.00	each	EE	0	0	0	587	0	587	0	587
865YRDDPYA-1E	Physical Activities	1.00	each	EE	0	0	0	11,058	0	11,058	0	11,058
865YRDEPMG-1E	Project Management	1.00	each	EE	0	0	0	2,347	0	2,347	0	2,347
865YRDFSUS-1E	Support Services	1.00	each	EE	0	0	0	2,166	0	2,166	0	2,166
881HR001	HR Project Execution Plan	1.00	each	EE	178	178	9,507	18,511	0	28,018	3,356	31,374
881HR002	HR Work Procedures	1.00	each	EE	249	249	9,978	5,321	0	15,299	3,522	18,821
881HR005	Develop Health/Safety/Emer. Plan	1.00	each	EE	551	551	16,530	0	0	16,530	5,835	22,365
881HR006	Collect & Develop CDPH&E Data	1.00	each	EE	435	435	16,281	2,931	0	19,212	5,747	24,960
883OFFAPEN-1E	Planning & Engineering	1.00	each	EE	0	0	0	2,979	0	2,979	0	2,979
883OFFBCHR-1E	Characterization	1.00	each	EE	0	0	0	10,327	0	10,327	0	10,327
883OFFCSPR-1E	Site Preparation	1.00	each	EE	0	0	0	2,184	0	2,184	0	2,184
883OFFDPYA-1E	Physical Activities	1.00	each	EE	0	0	0	41,505	0	41,505	0	41,505
883OFFEPMG-1E	Project Management	1.00	each	EE	0	0	0	8,937	0	8,937	0	8,937
883OFFFSUS-1E	Support Services	1.00	each	EE	0	0	0	8,142	0	8,142	0	8,142
883PLEAPEN-1E	Planning & Engineering	1.00	each	EE	0	0	0	849	0	849	0	849
883PLEBCHR-1E	Characterization	1.00	each	EE	0	0	0	2,997	0	2,997	0	2,997
883PLECSPR-1E	Site Preparation	1.00	each	EE	0	0	0	632	0	632	0	632
883PLEDPYA-1E	Physical Activities	1.00	each	EE	0	0	0	12,006	0	12,006	0	12,006
883PLEEPMG-1E	Project Management	1.00	each	EE	0	0	0	2,564	0	2,564	0	2,564
883PLEFSUS-1E	Support Services	1.00	each	EE	0	0	0	2,365	0	2,365	0	2,365
9-1EMC230025	Waste Repackaging-CA	1.00	each	EE	1,695	1,695	42,280	44,928	0	87,208	14,925	102,133
A0PDD01-1EMC0	Hazards Reduction Project Execution Plan	1.00	each	EE	59	59	3,137	13,808	0	16,946	1,107	18,053
A0PDD02-1EMC0	MOU Development	1.00	each	EE	75	75	3,371	757	0	4,128	1,190	5,318
A0PDD04-1EMC0	Data Collect Rmts for Xition to D&D	1.00	each	EE	9	9	475	297	0	773	168	941
A0PDD05-1EMC0	Building Conditions Walkdowns	1.00	each	EE	687	687	18,532	11,122	0	29,654	6,542	36,196
A0PDD06-1EMC0	Building Conditions Documentation	1.00	each	EE	423	423	12,556	5,242	0	17,798	4,432	22,230
A0PDD07-1EMC0	Reduced AB Request	1.00	each	EE	9	9	475	6,051	0	6,527	168	6,695
A0PDD08-1EMC0	Hazards Reduction Work Procedures	1.00	each	EE	100	100	3,270	4,075	0	7,345	1,154	8,499
A0PDD09-1EMC0	Hazards Reduction Work Packages	1.00	each	EE	263	263	9,284	16,130	0	25,413	3,277	28,691
A0PDD10-1EMC0	P/R/E Prev & Corr Mtce Rmts	1.00	each	EE	134	134	5,756	3,457	0	9,213	2,032	11,245

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

A0PDD11-1EMC0	Room Turnover Checklists	1.00	each	EE	8	8	428	1,092	0	1,519	151	1,670
A0PDD12-1EMC0	Building Rad Surveys	1.00	each	EE	1,145	1,145	41,700	159,418	0	201,118	14,720	215,838
A0PDD13-1EMC0	Relocate Building Personnel	1.00	each	EE	907	907	19,612	19,677	0	39,289	6,923	46,212
A0PDD15-1EMC0	Locker Room Cleanout	1.00	each	EE	387	387	8,370	5,568	0	13,939	2,955	16,893
A0PDD16-1EMC0	Utility Locker/Supply Cabinet Cleanout	1.00	each	EE	586	586	11,836	2,183	0	14,020	4,178	18,198
A0PDD19-1EMC0	Combustible Loading Removal	1.00	each	EE	2,363	2,363	52,239	32,042	0	84,281	18,440	102,721
A0PDD20-1EMC0	Excess Chemical Removal	1.00	each	EE	753	753	24,436	90,860	0	115,296	8,626	123,922
A0PDD23-1EMC0	Property Disposition/Management	1.00	each	EE	721	721	24,026	21,831	0	45,858	8,481	54,339
A0PDD25-1EMC0	Hazards Reduction Completion Maint Activities	1.00	each	EE	157	157	6,749	5,458	0	12,206	2,382	14,589
A0PDD26-1EMC0	RMRS Closure Project Maint Oversight	1.00	each	EE	60	60	3,232	10,916	0	14,148	1,141	15,289
A0PDD27-1EMC0	Hot & Cold Laundry Support	1.00	each	EE	142	142	2,402	99,656	0	102,058	848	102,906
A0PDD28-1EMC0	Miscellaneous Supplies/Subcontracts	1.00	each	EE	0	0	0	162,483	0	162,483	0	162,483
A0PDD29-1EMC0	Safety Support	1.00	each	EE	1,610	1,610	56,211	0	0	56,211	19,842	76,054
A0PDD30-1EMC0	Analytical Services Support	1.00	each	EE	0	0	0	145,543	0	145,543	0	145,543
A0PDD31-1EMC0	JHA/JSA Development	1.00	each	EE	155	155	3,856	12,007	0	15,863	1,361	17,224
A0PDD32-1EMC0	ASP Development	1.00	each	EE	233	233	9,252	3,056	0	12,308	3,266	15,574
A0PDD33-1EMC0	Hazard Assessment Safety Plan	1.00	each	EE	327	327	12,238	1,092	0	13,330	4,320	17,650
A0PDD34-1EMC0	Rad Hazard Characterization	1.00	each	EE	92	92	3,584	8,162	0	11,746	1,265	13,012
A0PDD35-1EMC0	Facility Re Characterization	1.00	each	EE	192	192	6,586	6,276	0	12,862	2,325	15,187
A0PDD36-1EMC0	Additional Reviews (Price-Anderson, ORC, etc.)	1.00	each	EE	854	854	26,021	30,346	0	56,367	9,186	65,553
A0PDD37-1EMC0	QA Reviews	1.00	each	EE	0	0	0	5,871	0	5,871	0	5,871
A1DD01-1EMC01	D&D Planning Phase	1.00	each	EE	3,010	3,010	95,254	110,838	0	206,091	33,624	239,716
A1DD02-1EMC01	Estb. Bldg Ventilation Shutdown Rmmts	1.00	each	EE	535	535	14,611	9,790	0	24,401	5,158	29,559
A1DD03-1EMC01	Develop RadCon Entry Requirements	1.00	each	EE	767	767	27,763	7,505	0	35,268	9,800	45,069
A1DD04-1EMC01	Develop Health/Safety/Emergency Prep. Entry Rmmts	1.00	each	EE	238	238	8,503	7,732	0	16,235	3,001	19,236
A1DD05-1EMC01	Develop HazMat Exposure Protection Plan	1.00	each	EE	761	761	27,000	6,186	0	33,186	9,531	42,717
A1DD06-1EMC01	Building Ventilation Study	1.00	each	EE	567	567	21,157	33,990	0	55,147	7,468	62,616
A1DD07-1EMC01	Shutdown Building Lighting Study	1.00	each	EE	1,210	1,210	40,903	26,492	0	67,396	14,439	81,835
A1DD08-1EMC01	Apply Contamination Cntrl Fixative	1.00	each	EE	1,507	1,507	43,641	30,677	0	74,319	15,405	89,724
A1DD09-1EMC01	Training & Qualification	1.00	each	EE	1,217	1,217	28,174	20,749	0	48,922	9,945	58,868
A1DD10-1EMC01	Required Surveillances	1.00	each	EE	2,990	2,990	69,272	121,067	0	190,338	24,453	214,791
A1DD11-1EMC01	Collect and Develop CDPH&E Data	1.00	each	EE	591	591	21,775	3,821	0	25,595	7,686	33,282
NPMCWM0100-1	Strategy/Methodology	1.00	ea	HC	27	27	1,054	498	0	1,552	372	1,924
NPMCWM0101-1	Procurement	1.00	ea	HC	0	0	0	12,638	0	12,638	0	12,638
NPMCWM0102-1	Engineering Design Package	1.00	ea	HC	256	256	6,736	0	0	6,736	2,378	9,114
NPMCWM0103-1	Authorization Basis	1.00	ea	HC	78	78	2,610	1,505	0	4,115	921	5,036
NPMCWM0104-1	Stripout	1.00	ea	HC	356	356	7,325	0	0	7,325	2,586	9,911
NPMCWM0105-1	Clean Closure Operations	1.00	ea	HC	498	498	10,404	15,938	0	26,342	3,673	30,015
NPMCWM0106-1	Remove T-4 and T-5	1.00	ea	HC	697	697	14,756	0	0	14,756	5,209	19,964
NPMCWM0107-1	Close Secondary Containment	1.00	ea	HC	64	64	1,327	3,346	0	4,674	469	5,142
NPMCWM0108-1	Closure Certification	1.00	ea	HC	36	36	1,901	9,096	0	10,998	671	11,669
NPMCWM0109-1	Final Building Operations	1.00	ea	HC	64	64	1,327	0	0	1,327	469	1,796
NPMCWM0110-1	Engineering Documentation	1.00	ea	HC	14	14	487	70,297	0	70,784	172	70,956
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	1,135,899	1,135,899	0	1,135,899
Total for Activity 1EEC5002:						58,534	1,601,967	5,354,897	1,135,899	8,092,763	565,494	8,658,258

Line Item 1-1EMC210025 - Remove Racks of Metal Stock-Five Racks

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Remove Racks of Metal Stock - Five Racks of Steel, Stainless Steel, Carbon Steel, Copper, Aluminum must be removed from outside B.865. Breakdown of Cost Data: Item - Remove Racks of Metal Stock Units - 10)Hours 10)Dollars
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)970 2)8,000
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment -N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units	
750	STRAIGHT TIME BASE		E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	6.43	Hours	
Factors	20	Hours - Banding, Shipping Containers		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	25.70	Hours	
Factors	80	Hours - WGI: Waste Certification		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	77.10	Hours	
Factors	240	Hours - Waste Packaging		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE		L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	9.64	Hours	
Factors	30	Hours - WGI: Waste Certification		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	25.70	Hours	
Factors	80	Hours - Project Management &		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE		P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	6.43	Hours	
Factors	20	Hours - Prepare Drum Travelers		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE		P170	OTHER ADMINISTRATIVE & PROFF	C242S	Transportation	Linear	9.64	Hours	
Factors	30	Hours - Fork Truck & Driver		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE		T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Srvs Steelworkers	Linear	6.43	Hours	
Factors	20	Hours - Organize/Palletize Metal		0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem		
A5C	SUPPLIES		0000	NONE	C104S	Closure Management	Linear	2.608.63	Dollars	
Factors	8000	Waste Crates, Liners, Banding, etc.		1.015	-- FY00 Escalation --	0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem
A5H	SUBCONTRACTED SRVS		E130	OTHER ENGINEERS	C104S	Closure Management	Linear	4.070.79	Dollars	
Factors	12388.5	Prime Dollars		1.02283	-- FY00 Escalation --	0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem

Line Item 1-1EMC230025 - Record File Disposition

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.

Experience Item Desc - Two cargo containers with epidemiological metrology records need to be dispositioned.

Breakdown of Cost Data:

Item - Record File Disposition

Units - 1)Hours 2)Dollars

Unit Cost - 1)1,030 2)17,716

Unit Cost Adjustment factor - None

Revised Unit Cost - None

Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	19.28	Hours
Factors	60	Hours	0.36123	Mav Earned Value Factor				
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	C104S	Closure Management	Linear	32.13	Hours
Factors	100	Hours	0.36123	Mav Earned Value Factor				
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	64.25	Hours
Factors	200	Hours	0.36123	Mav Earned Value Factor				
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	11.24	Hours
Factors	35	Hours	0.36123	Mav Earned Value Factor				
750	STRAIGHT TIME BASE	P070	COST ESTIMATORS PLANNERS AN	C104S	Closure Management	Linear	32.13	Hours
Factors	100	Hours	0.36123	Mav Earned Value Factor				
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	16.06	Hours
Factors	50	Hours	0.36123	Mav Earned Value Factor				
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	6.43	Hours
Factors	20	Hours	0.36123	Mav Earned Value Factor				
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	64.25	Hours
Factors	200	Hours	0.36123	Mav Earned Value Factor				
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	2,256.71	Dollars
Factors	2500	Dollars	1.015	-- FY00 Escalation --				
A5H	SUBCONTRACTED SRVS	P140	SAFEGUARDS AND OTHER SECURI	C104S	Closure Management	Linear	2,957.35	Dollars
Factors	45	estimated \$/hr	200	Hours	1.02283 -- FY00 Escalation --	0.36123	Mav Earned Value Factor	
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	K267S	Analytical Laboratory Services	Linear	1,971.57	Dollars
Factors	6000	Dollars	1.02283	-- FY00 Escalation --		0.36123	Mav Earned Value Factor	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	8,383.29	Dollars
Factors	200	Hours	46.08	Dollars/Hr.	1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400] .88934200 - Svstem	

Line Item 10-1EMC230025 - Disassemble Beryllium Permacon

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Permacon structure, not suitable for repackaging questionable waste crates, must have contents waste packed, be contaminated and dismantled.
Breakdown of Cost Data:
Item - Disassemble Be Permacon
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,540 2)42,824
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	12.85	Hours
Factors	40	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	32.13	Hours
Factors	100	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	12.85	Hours
Factors	40	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	32.13	Hours
Factors	100	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	64.25	Hours
Factors	200	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	45.30	Hours
Factors	141	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	12.85	Hours
Factors	40	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	6.43	Hours
Factors	20	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	96.38	Hours
Factors	300	Hours	0.36123	May Earned Value Factor				
						0.88934	[SYS 061400]	.88934200 - Svstem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	1,304.32	Dollars
Factors	4000	Dollars	1.015	-- FY00 Escalation --	0.36123	May Earned Value Factor		
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C200S	Engineering Services	Linear	2,713.86	Dollars
Factors	8259	Prime Dollars	1.02283	-- FY00 Escalation --	0.36123	May Earned Value Factor		
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	K267S	Analvtical Laboratory Services	Linear	8,214.86	Dollars
Factors	25000	Dollars	1.02283	-- FY00 Escalation --	0.36123	May Earned Value Factor		
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	4,542.49	Dollars
Factors	300	Hours	46.08	Dollars/Hr.	1.02283	-- FY00 Escalation --	0.36123	May Earned Value Factor
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item 11-1EMC230025 - Re-pack Existing Waste Containers-CA

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - 6 Reject waste crates and other questionable containers, with non-compliant situations, will be repacked.
Breakdown of Cost Data:
Item - Re-Pack Existing Waste Containers-CA
Units - 1)Hours 2)Dollars
Unit Cost - 1)3,100 2)86,472
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element

Skill

Department

Curve

Quantity

Units

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	355.74	Hours
Factors	400	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	444.67	Hours
Factors	500	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	266.80	Hours
Factors	300	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	125.40	Hours
Factors	141	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	266.80	Hours
Factors	300	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	88.93	Hours
Factors	100	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	88.93	Hours
Factors	100	Hours					0.88934 [SYS 061400] .88934200 - Svstem	
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	13.540.23	Dollars
Factors	15000	Dollars	1.015 -- FY00 Escalation --				0.88934 [SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	7.512.76	Dollars
Factors	8259	Prime Dollars	1.02283 -- FY00 Escalation --				0.88934 [SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	9.096.46	Dollars
Factors	10000	Dollars	1.02283 -- FY00 Escalation --				0.88934 [SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	18.192.91	Dollars
Factors	20000	Dollars	1.02283 -- FY00 Escalation --				0.88934 [SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLIGI	KE10H	Indust/Site Srvs Steelworkers	Linear	37.724.83	Dollars
Factors	900	Hours	46.08 Dollars/Hr.	1.02283 -- FY00 Escalation --			0.88934 [SYS 061400] .88934200 - System	

Line Item 12-1EMC230025 - Remove Caustic Scrubber

BOE Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation &

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter *
Baseline Devl
1EEC

Starts In FY *

decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - The caustic scrubber, located in the SE corner of the building, must have electrical disconnections, prior to free release.
Breakdown of Cost Data:
Item - Remove Caustic Scrubber
Units - 1)Hours 2)Dollars
Unit Cost - 1)990 2)14,608
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Svcs Steelworkers	Linear	17.79	Hours
Factors	20	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours
Factors	70	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	35.57	Hours
Factors	40	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	35.57	Hours
Factors	40	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	35.57	Hours
Factors	40	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	T070	MAINT. TECHS. (INSTRUMENT TEC	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
							0.88934	ISYS 0614001 .88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	1.252.13	Dollars
Factors	1376.5	Prime Dollars	1.02283 -- FY00 Escalation --					
							0.88934	ISYS 0614001 .88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	4.548.23	Dollars
Factors	5000	Dollars	1.02283 -- FY00 Escalation --					
							0.88934	ISYS 0614001 .88934200 - Svstem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	4,548.23	Dollars
Factors	5000 Dollars		1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	4,191.65	Dollars
Factors	100 Hours		46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934 [SYS 061400]	.88934200 - Svstem	

Line Item 13-1EMC230025 - Remove 24K Volt Sutton Press Switch Gear

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - 24,000 Volt Sutton Press Switch Gear
Breakdown of Cost Data:
Item - Sutton Press Switch Gear Removal
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,150 2)10,000
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	KE10S	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	L030	UTILITY WORKER	C221S	Steam Plant Operations	Linear	177.87	Hours
Factors	200 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTCCH. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	KE10S	Indust/Site Srvs Steelworkers	Linear	62.25	Hours
Factors	70 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	35.57	Hours
Factors	40 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	53.36	Hours
Factors	60 Hours							
						0.88934 [SYS 061400]	.88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	1,252.13	Dollars
Factors	1376.5 Prime Dollars		1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C104S	Closure Management	Linear	4,548.23	Dollars
Factors	5000 Dollars		1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C104S	Closure Management	Linear	4,548.23	Dollars
Factors	5000 Dollars	1.02283	-- FY00 Escalation --					

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 14-1EMC230025 - Remove Electrical Service Panels

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Transformers and electrical supply panels in the CA & mechanical room, which will be put in SCO containers and managed as low-level waste.
Breakdown of Cost Data:
Item - Removal of Electrical Service Panels
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,730 2)163,824
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	C020 ELECTRICIANS	KE10H Indust/Site Svcs Steelworkers	Linear	444.67	Hours
Factors	500 Hours				
750 STRAIGHT TIME BASE	C090 STRUCTURAL AND METAL WORKE	R100S RMRS Salaried	Linear	88.93	Hours
Factors	100 Hours				
750 STRAIGHT TIME BASE	L060 MISSION SUP SPEC II (FLTTCCH. WS	KE10H Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100 Hours				
750 STRAIGHT TIME BASE	L070 MISSION SUP SPEC III	KE10H Indust/Site Svcs Steelworkers	Linear	177.87	Hours
Factors	200 Hours				
750 STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	94.27	Hours
Factors	106 Hours (Project Managers)				
750 STRAIGHT TIME BASE	P050 COMPLIANCE INSPECTORS	C104S Closure Management	Linear	177.87	Hours
Factors	200 Hours				
750 STRAIGHT TIME BASE	P090 INDUSTRIAL HYGIENISTS	C104S Closure Management	Linear	88.93	Hours
Factors	100 Hours				
750 STRAIGHT TIME BASE	P170 OTHER ADMINISTRATIVE & PROFE	C242S Transportation	Linear	44.47	Hours
Factors	50 Hours				
750 STRAIGHT TIME BASE	S020 ENVIRONMENTAL SCIENTISTS	C103S Environmental Compliance	Linear	26.68	Hours
Factors	30 Hours				
750 STRAIGHT TIME BASE	S020 ENVIRONMENTAL SCIENTISTS	C103S Environmental Compliance	Linear	44.47	Hours
Factors	50 Hours				
A5C SUPPLIES	0000 NONE	C104S Closure Management	Linear	90,268.21	Dollars
Factors	100000 Dollars (SCO Containers)	1.015 -- FY00 Escalation --			
				0.88934 [SYS 061400] .88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	45,134.11	Dollars
Factors	50000	Dollars (2000 lb. Fork Truck)	1.015	-- FY00 Escalation --				
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C104S	Closure Management	Linear	2,504.25	Dollars
Factors	2753	Prime Dollars	1.02283	-- FY00 Escalation --				
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	12,574.94	Dollars
Factors	300	Hours	46.08	Dollars per Hour	1.02283	-- FY00 Escalation --		
							0.88934	[SYS 061400] .88934200 - Svstem

Line Item 15-1EMC230025 - Additional Oversight

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Additional Oversight, including record keeping, two deputy Project Managers and Administrative Support personnel. This activity was included in this WADlet to allow completion of all activities in a single fiscal year.
Breakdown of Cost Data:
Item - Record Keeping, Admin. Support and Two Deputy Project Managers
Units - 1)Hours
Unit Cost - 1)7,240
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		G010	ADMINISTRATIVE ASSISTANTS	C104S	Closure Management	Linear	1.609.71	Hours
Factors	1810	Hours	0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE		G010	ADMINISTRATIVE ASSISTANTS	C104S	Closure Management	Linear	1.609.71	Hours
Factors	1810	Hours	0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	1.609.71	Hours
Factors	1810	Hours	0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE		M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	1.609.71	Hours
Factors	1810	Hours	0.88934 [SYS 061400] .88934200 - Svstem						

Line Item 2-1EMC210025 - Disposition Used Pieces of Machinery with PREs

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Disposition Used Pieces of Machinery with PREs-Nine pieces of large machinery, residing in cargo containers.
Breakdown of Cost Data:
Item - Disposition Used Machinery with PREs
Units - 1)Hours 5)Dollars
Unit Cost - 1)70 2)6,997
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	12.85	Hours
Factors	40	Hours - Process Knowledge: Prepare 0.36123 May Earned Value Factor						
							0.88934	[SYS 061400] .88934200 - Svstem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	3.21	Hours
Factors	10	Hours - Transportation	0.36123	May Earned Value Factor				
A5H	SUBCONTRACTED SRVS	P030	BUYERS PROCUREMENT AND CON	C104S	Closure Management	Linear	295.74	Dollars
Factors	45	estimated \$/hr - RMRS corp	20	Hours - Prepare Declaration of	1.02283 -- FY00 Escalation --	0.36123	May Earned Value Factor	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	1.817.00	Dollars
Factors	120	Hours - Pre-Job Surveys	46.08	Dollars/Hour	1.02283 -- FY00 Escalation --	0.36123	May Earned Value Factor	
A5L	RENTALS	0000	NONE	C104S	Closure Management	Linear	1.324.23	Dollars
Factors	1467	Crane Rental - Banding & Shipping	1.015	-- FY00 Escalation --				
						0.88934	[SYS 061400] .88934200 - Svstem	

Line Item 2-1EMC230025 - Complete RCRA Closure

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Three sumps, three tanks and associated piping were deferred from from original RCRA Closure.
Breakdown of Cost Data:
Item - Completion of RCRA Closure
Units - 1)Hours 2)Dollars
Unit Cost - 1)4,400 2)53,824
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	266.80	Hours
Factors	300	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC	KE10H	Indust/Site Srvs Steelworkers	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC	KE10H	Indust/Site Srvs Steelworkers	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	533.61	Hours
Factors	600	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	125.40	Hours
Factors	141	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	889.34	Hours
Factors	1000	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	18.053.64	Dollars
Factors	20000	Dollars	1.015	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	18.192.91	Dollars
Factors	20000	Dollars	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	12.574.94	Dollars
Factors	300	Hours	46.08	Dollars/Hr.	1.02283	-- FY00 Escalation --		
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item 3-1EMC210025 - Disposition Used Machinery without PREs

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.

Experience Item Desc - Disposition Used Machinery without PREs

Breakdown of Cost Data:

Item - Used Machinery Disposition

Units - 1)Hours 2)Dollars

Unit Cost - 1)175 2)4,843

Unit Cost Adjustment factor - None

Revised Unit Cost - N/A

Basis for adjustment -N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear		16.06	Hours
Factors	50	Hours - Waste Packaging	0.36123	May Earned Value Factor					
						0.88934	[SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear		9.64	Hours
Factors	30	Hours - Waste Inspection/Certification	0.36123	May Earned Value Factor					
						0.88934	[SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear		11.24	Hours
Factors	35	Hours - Process Knowledge; Prepare	0.36123	May Earned Value Factor					
						0.88934	[SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear		12.85	Hours
Factors	40	Hours - Maintenance Planners	0.36123	May Earned Value Factor					
						0.88934	[SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear		6.43	Hours
Factors	20	Hours - Transport Supplies/Waste	0.36123	May Earned Value Factor					
						0.88934	[SYS 061400]	.88934200 - Svstem	
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear		978.24	Dollars
Factors	3000	Crates, Liners, Banding	1.015	-- FY00 Escalation --	0.36123	May Earned Value Factor			
						0.88934	[SYS 061400]	.88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear		605.67	Dollars
Factors	40	Hours - Pre-Job Surveys	46.08	Dollars/Hr.	1.02283	-- FY00 Escalation --	0.36123	May Earned Value Factor	
						0.88934	[SYS 061400]	.88934200 - System	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Line Item 3-1EMC230025 - Disconnect Remove CO2 System

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - The former fire suppression system in SE corner of B.865, currently out of service, must be removed.

Breakdown of Cost Data:
Item - Disconnect/Remove CO2 System
Units - 1)Hours 2)Dollars
Unit Cost - 1)650 2)9,608
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	35.57	Hours
Factors	40	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers	Linear	35.57	Hours
Factors	40	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	35.57	Hours
Factors	40	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		E020	CIVIL ENGINEERS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	8.89	Hours
Factors	10	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	31.13	Hours
Factors	35	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		P070	COST ESTIMATORS PLANNERS AN	C200S	Engineering Services	Linear	88.93	Hours
Factors	100	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE		P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	17.79	Hours
Factors	20	Hours							
									0.88934 [SYS 061400] .88934200 - Svstem
A5H	SUBCONTRACTED SRVS		P140	SAFEGUARDS AND OTHER SECURI	C242S	Transportation	Linear	4.093.41	Dollars
Factors	45	estimated \$/hr - RMRS Corp	100	Hours	1.02283 -- FY00 Escalation --				
									0.88934 [SYS 061400] .88934200 - Svstem
A5H	SUBCONTRACTED SRVS		T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Svcs Steelworkers	Linear	4.191.65	Dollars
Factors	100	Hours	46.08	Dollars/Hr.	1.02283 -- FY00 Escalation --				
									0.88934 [SYS 061400] .88934200 - Svstem
A5L	RENTALS		0000	NONE	C104S	Closure Management	Linear	4.513.41	Dollars
Factors	5000	Dollars	1.015	-- FY00 Escalation --					
									0.88934 [SYS 061400] .88934200 - Svstem

Line Item 4-1EMC210025 - Empty Carpenters Shop

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Empty Carpenter's Shop Located South of B.865
Breakdown of Cost Data:
Item - Carpenter's Shop
Units - 1)Hours 2)Dollars
Unit Cost - 1)180 2)3,304
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment -N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	9.64	Hours
Factors	30	Hours - Banding & Shipping Waste	0.36123	Mav Earned Value Factor				
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H.WS	KE10H	Indust/Site Svcs Steelworkers	Linear	6.43	Hours
Factors	20	Hours - WGI: Waste Certification	0.36123	Mav Earned Value Factor				
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H.WS	KE10H	Indust/Site Svcs Steelworkers	Linear	20.88	Hours
Factors	65	Hours - Waste Packaging	0.36123	Mav Earned Value Factor				
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H.WS	KE10H	Indust/Site Svcs Steelworkers	Linear	11.24	Hours
Factors	35	Hours - Waste Inspection	0.36123	Mav Earned Value Factor				
						0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	9.64	Hours
Factors	30	Hours - Process Knowledge: Project	0.36123	Mav Earned Value Factor				
						0.88934	[SYS 061400] .88934200 - Svstem	
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	902.68	Dollars
Factors	1000	Crates, Liners, Banding, etc.	1.015	-- FY00 Escalation --				
						0.88934	[SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Svcs Steelworkers	Linear	454.25	Dollars
Factors	30	Hours - Pre-Job Surveys	46.08	Dollars/Hour	1.02283 -- FY00 Escalation --	0.36123	Mav Earned Value Factor	
						0.88934	[SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Svcs Steelworkers	Linear	302.83	Dollars
Factors	20	Hours - Submit RWP Requests	46.08	Dollars/Hour	1.02283 -- FY00 Escalation --	0.36123	Mav Earned Value Factor	
						0.88934	[SYS 061400] .88934200 - Svstem	

Line Item 4-1EMC230025 - Close and Decontaminate Met. Labs

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Rooms 106 & 108, a former metrology lab & currently an RMA, must be cleaned & decontaminated.
Breakdown of Cost Data:
Item - Close and Decontaminate Rooms 106 & 108.
Units - 1)Hours 2)Dollars
Unit Cost - 1)3,610 2)42,648
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	266.80	Hours
Factors	300	Hours						
						0.88934	[SYS 061400] .88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	80.04	Hours
Factors	90	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	533.61	Hours
Factors	600	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	156.52	Hours
Factors	176	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	17.79	Hours
Factors	20	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	4,513.41	Dollars
Factors	5000	Dollars	1.015 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	7,512.76	Dollars
Factors	8259	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	P140	SAFEGUARDS AND OTHER SECURI	C242S	Transportation	Linear	8,186.81	Dollars
Factors	45	estimated \$/hr - RMRS Corp	200 Hours		1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	9,096.46	Dollars
Factors	10000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	25,149.88	Dollars
Factors	600	Hours	46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item 5-1EMC210025 - Remove Carpenters Shop

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Remove Carpenters' Shop Located South of B.865. Breakdown of Cost Data: Item - Remove Carpenter's Shop located South of B.865. Units - 1)Hours 6)Dollars
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)155 2)2,500
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	9.64	Hours
Factors	30	Hours - Craft Labor	0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	C104S	Closure Management	Linear	16.06	Hours
Factors	50	Hours - Disconnect Electrical Supply	0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	6.43	Hours
Factors	20	Hours - LO/TO Documentation	0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	6.43	Hours
Factors	20	Hours - Project Management &	0.36123	May Earned Value Factor		0.88934	[SYS 061400] .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	328.59	Dollars
Factors	1000	Sanitary Landfill Disposal Costs	1.02283	-- FY00 Escalation --		0.36123	May Earned Value Factor	0.88934 [SYS 061400] .88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C104S	Closure Management	Linear	478.78	Dollars
Factors	1457.05	Prime Dollars	1.02283	-- FY00 Escalation --		0.36123	May Earned Value Factor	0.88934 [SYS 061400] .88934200 - Svstem
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	489.12	Dollars
Factors	1500	Lease Roll-Off	1.015	-- FY00 Escalation --		0.36123	May Earned Value Factor	0.88934 [SYS 061400] .88934200 - Svstem

Line Item 5-1EMC230025 - Remove Cooling Loop, CT#4 & Heat Exchanger

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Cooling system in place to cool hip press and heat exchanger with water, must be properly disposed.

Breakdown of Cost Data:

Item - Remove Cooling Loop, CT#4 & Heat Exchanger

Units - 1)Hours 2)Dollars

Unit Cost - 1)3,320 2)69,432

Unit Cost Adjustment factor - None

Revised Unit Cost - N/A

Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	266.80	Hours
Factors	300	Hours				0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers	Linear	177.87	Hours
Factors	200	Hours				0.88934	[SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	533.61	Hours
Factors	600	Hours				0.88934	[SYS 061400] .88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	80.04	Hours
Factors	90	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	266.80	Hours
Factors	300	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	156.52	Hours
Factors	176	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C240S	Traffic/Transportation	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	S030	GEOLOGISTS	C103S	Environmental Compliance	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	9.026.82	Dollars
Factors	10000	Dollars	1.015 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	1.252.13	Dollars
Factors	1376.5	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	9.096.46	Dollars
Factors	10000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	27.289.37	Dollars
Factors	30000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	16.766.59	Dollars
Factors	400	Hours	46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400]	.88934200 - Svstem
A5L	RENTALS	0000	NONE	C104S	Closure Management	Linear	902.68	Dollars
Factors	1000	Dollars	1.015 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item 6-1EMC210025 - Empty/Consolidate Four Cargo Containers

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Empty & Consolidate Four Cargo Containers Breakdown of Cost Data: Item - Empty/Consolidate Four Cargo Containers Units - 1)Hours 2)Dollars
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rocky Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)365 2)6,965
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C040	MAINTENANCE MACHINIST (incl Exp	KE10H	Indust/Site Svcs Steelworkers	Linear	12.85	Hours
Factors	40	Hours - Electricians: Auxilliary Lighting		0.36123	May Earned Value Factor		0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	28.91	Hours
Factors	90	Hours - Banding, Storing and		0.36123	May Earned Value Factor		0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Svcs Steelworkers	Linear	25.70	Hours
Factors	80	Hours - Waste Packaging		0.36123	May Earned Value Factor		0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Svcs Steelworkers	Linear	8.03	Hours
Factors	25	Hours - Prepare Travelers; Waste		0.36123	May Earned Value Factor		0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance	Linear	12.85	Hours
Factors	40	Hours - Process Knowledge:		0.36123	May Earned Value Factor		0.88934	ISYS 0614001 .88934200 - Svstem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	3.791.26	Dollars
Factors	4200	Auxiliary Lighting; Waste Crates,		1.015	-- FY00 Escalation --		0.88934	ISYS 0614001 .88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C104S	Closure Management	Linear	2.620.60	Dollars
Factors	2880.9	Prime Dollars		1.02283	-- FY00 Escalation --		0.88934	ISYS 0614001 .88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Svcs Steelworkers	Linear	908.50	Dollars
Factors	60	Hours - Pre-Job Surveys		46.08	Dollars/Hour		1.02283	-- FY00 Escalation --
						0.36123	May Earned Value Factor	
						0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item 6-1EMC230025 - Remove Equipment-Cold Machine Shop

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Large stationary power tools, wired into the electrical system, generating approximately 20 waste crates.

Breakdown of Cost Data:

Item - Remove Equipment-Cold Machine Shop
Units - 1)Hours 2)Dollars
Unit Cost - 1)3,100 2) 68,432
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	266.80	Hours
Factors	300	Hours					0.88934	ISYS 0614001 .88934200 - Svstem
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers	Linear	266.80	Hours
Factors	300	Hours					0.88934	ISYS 0614001 .88934200 - Svstem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	355.74	Hours
Factors	400	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	266.80	Hours
Factors	300	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC.H. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	266.80	Hours
Factors	300	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	125.40	Hours
Factors	141	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	266.80	Hours
Factors	300	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	88.93	Hours
Factors	100	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	88.93	Hours
Factors	100	Hours						
						0.88934 [SYS 061400] .88934200 - Svstem		
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	9.026.82	Dollars
Factors	10000	Dollars	1.015 -- FY00 Escalation --					
						0.88934 [SYS 061400] .88934200 - Svstem		
A5C	SUPPLIES	S010	CHEMISTS	C103S	Environmental Compliance	Linear	18.053.64	Dollars
Factors	20000	Dollars	1.015 -- FY00 Escalation --					
						0.88934 [SYS 061400] .88934200 - Svstem		
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	7.512.76	Dollars
Factors	8259	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400] .88934200 - Svstem		
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	18.192.91	Dollars
Factors	20000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400] .88934200 - Svstem		
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	16.766.59	Dollars
Factors	400	Hours	46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934 [SYS 061400] .88934200 - Svstem		

Line Item 7-1EMC210025 - Survey/Remove Cargo Containers

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Survey & Remove Cargo Containers Breakdown of Cost Data: Item - Survey/Remove Cargo Containers Units - 1)Dollars 2)Hours Unit Cost - 1)5,760 2)175 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter * Starts In FY *

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Svcs Steelworkers	Linear	24.09	Hours
Factors	75	Hours - Remove Carcoes: Clean Area	0.36123	Mav Earned Value Factor				
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	32.13	Hours
Factors	100	Hours - Transport Carcoes	0.36123	Mav Earned Value Factor				
						0.88934 [SYS 061400]	0.88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Svcs Steelworkers	Linear	1.892.70	Dollars
Factors	125	Hours - Pre-Job Surveys:	46.08	Dollars/Hour	1.02283 -- FY00 Escalation --	0.36123	Mav Earned Value Factor	
						0.88934 [SYS 061400]	0.88934200 - Svstem	

Line Item 7-1EMC230025 - Equipment Removal Beryllium Shop

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - 16 large stationary power tools & 25 tool cabinets, toolboxes, and supplies. All must be shipped as low-level waste.
Breakdown of Cost Data:
Item - Equipment Removal Beryllium Shop
Units - 1)Hours 2)Dollars
Unit Cost - 1)3,100 2)76,472
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Manaaement	Linear	355.74	Hours
Factors	400	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Svcs Steelworkers	Linear	444.67	Hours
Factors	500	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Svcs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Svcs Steelworkers	Linear	266.80	Hours
Factors	300	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Manaaement	Linear	125.40	Hours
Factors	141	Hours						
						0.88934 [SYS 061400]	0.88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	266.80	Hours
Factors	300	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	13.540.23	Dollars
Factors	15000	Dollars	1.015 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Ssystem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	7.512.76	Dollars
Factors	8259	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Ssystem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	18.192.91	Dollars
Factors	20000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Ssystem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	37.724.83	Dollars
Factors	900	Hours	46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400]	.88934200 - Ssystem

Line Item 8-1EMC230025 - Drain Fluids-Large Machines

BOE

Estimators Experience - Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - 14 pieces of machinery in the CA, containing large amounts of oil, hydraulic fluid and other lubricants, must be drained, characterized and disposed.
Breakdown of Cost Data:
Item - Drain Fluids from Large Machines
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,700 2)38,200
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem
750	STRAIGHT TIME BASE	C040	MAINTENANCE MACHINIST (incl Exp	KE10H	Indust/Site Srvs Steelworkers	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Ssystem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	94.27	Hours
Factors	106	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	13.540.23	Dollars
Factors	15000	Dollars	1.015 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	5.008.51	Dollars
Factors	5506	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	9.096.46	Dollars
Factors	10000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	S010	CHEMISTS	C103S	Environmental Compliance	Linear	9.096.46	Dollars
Factors	10000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	2.910.87	Dollars
Factors	100	Hours	32 Dollars/Hr.	1.02283 -- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - System

Line Item 865BESAPEN-1EMC01912 - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Planning & Engineering Beryllium Shop Breakdown of Cost Data: Item - Planning & Engineering Beryllium Shop Units - 1)Dollars Unit Cost - 1)1,410 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000 NONE	C104S Closure Management	Linear	1.272.78	Dollars
Factors	0.47	Dollars per Square Foot	3000	Square Feet	1.015 -- FY00 Escalation --	
					0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865BESBCHR-1EMC01912 - Characterization

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Characterization of Beryllium Shop Breakdown of Cost Data: Item - Characterization of Beryllium Shop Units - 1)Dollars Unit Cost - 1)4,980 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	4.495.36	Dollars
Factors	1.66	Dollars per Square Foot	3000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865BESCSPPR-1EMC01912 - Site Preparation

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Site Preparation of Beryllium Shop Breakdown of Cost Data: Item - Site Preparation of Beryllium Shop Units - 1)Dollars Unit Cost - 1)3,000 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	947.82	Dollars
Factors	0.35	Dollars per Square Foot	3000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865BESDPYA-1EMC01912 - Physical Activities

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Physical Activities for Beryllium Shop Breakdown of Cost Data: Item - Physical Activities for Beryllium Shop Units - 1)Dollars Unit Cost - 1)19,950 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	18.008.51	Dollars
Factors	6.65	Dollars per Square Foot	3000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865BESEPMG-1EMC01912 - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Project Management for Beryllium Shop Breakdown of Cost Data: Item - Project Management for Beryllium Shop Units - 1)Dollars Unit Cost - 1)4,260 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department	Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	3.845.43	Dollars
Factors	1.42	Dollars per Square Foot	3000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865HIBAPEN-1EMC01913 - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Planning & Engineering Contaminated Area Breakdown of Cost Data: Item - Planning & Engineering Contaminated Area Units - 1)Dollars							
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)20,350
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	18.369.58	Dollars
Factors	0.55	Dollars per Square	37000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865HIBBCHR-1EMC01913 - Characterization

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Characterization Contaminated Area
Breakdown of Cost Data:
Item - Characterization Contaminated Area
Units - 1)Dollars
Unit Cost - 1)69,930
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	63.124.56	Dollars
Factors	1.89	Dollars per Square Foot	37000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865HIBCSPP-1EMC01913 - Site Preparation

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Site Preparation Contaminated Area
Breakdown of Cost Data:
Item - Site Preparation Contaminaed Area
Units - 1)Dollars
Unit Cost - 1)14,800
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	13.359.70	Dollars
Factors	0.4	Dollars per Square Foot	37000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865HIBDPYA-1EMC01913 - Physical Activities

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Physical Activities for Contaminated Area
Breakdown of Cost Data:
Item - Physical Activities for the Contamination Area
Units - 1)Dollars
Unit Cost - 1)280,460
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	13.359.70	Dollars

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	253.166.20	Dollars
Factors	7.58	Dollars per Square Foot	37000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865HIBEPMG-1EMC01913 - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Project Management for Contaminated Area Breakdown of Cost Data: Item - Project Management for Contaminated Area Units - 1)Dollars Unit Cost - 1)59,940 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	54.106.77	Dollars
	Factors	1.62	Dollars per Square Foot	37000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865HIBFSUS-1EMC01913 - Support Services

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Support Services Contaminated Area Breakdown of Cost Data: Item - Support Services Contaminated Area Units - 1)Dollars Unit Cost - 1)55,130 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES		0000	NONE	C104S	Closure Management	Linear	49.764.87	Dollars
	Factors	1.49	Dollars per Square Foot	37000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem	

Line Item 865METAPEN-1EMC01912 - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Planning & Engineering Metrology Labs Breakdown of Cost Data: Item - Planning & Engineering Metrology Labs Units - 1)Dollars Unit Cost - 1)450 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	406.21	Dollars
	Factors	0.45	Dollars per Square Foot	1000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865METBCHR-1EMC01912 - Characterization

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Characterization Metrology Labs Breakdown of Cost Data: Item - Characterization of Metrology Labs Units - 1)Dollars							
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)1,570
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE		C104S	Closure Management	Linear	1.417.21	Dollars
Factors	1.57	Dollars per Square Foot	1000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865METCSPR-1EMC01912 - Site Preparation

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Site Preparation of Metrology Labs
Breakdown of Cost Data:
Item - Site Preparation of Metrology Labs
Units - 1)Dollars
Unit Cost - 1)330
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE		C104S	Closure Management	Linear	297.89	Dollars
Factors	0.33	Dollars per Square Foot	1000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865METDPYA-1EMC01912 - Physical Activities

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Physical Activities of Metrology Lab
Breakdown of Cost Data:
Item - Physical Activities of Metrology Lab
Units - 1)Dollars
Unit Cost - 1)6,290
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE		C104S	Closure Management	Linear	5.677.87	Dollars
Factors	6.29	Dollars per Square Foot	1000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865METEPMG-1EMC01912 - Project Management

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Project Management for Metrology Lab
Breakdown of Cost Data:
Item - Project Management for Metrology Lab
Units - 1)Dollars
Unit Cost - 1)1,350
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill		Department		Curve	Quantity	Units
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	1,218.62	Dollars
Factors	1.35	Dollars per Square Foot	1000	Square Feet	1.015	-- FY00 Escalation --		

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865METFSUS-1EMC01912 - Support Services

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Support Services for Metrology Lab Breakdown of Cost Data: Item - Support Services for Metrology Lab Units - 1)Dollars Unit Cost - 1)1,240 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES		0000	NONE	C104S	Closure Management	Linear	1,119.33	Dollars
	Factors	1.24	Dollars per Square Foot	1000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865PropLI-1EMC017040 - B.865 Light Industrial Area

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template." Item Desc - Property Removal Costs from Type II Light Industrial Areas Breakdown of Historical Data: Item - Property Removal Costs Units - 1)Dollars Unit Cost - 1)772,900 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units	
	A5C	SUPPLIES		0000	NONE	C104S	Closure Management		Linear	697.683.00	Dollars
	Factors	7729	Items	100	Dollars per Item (Average)		1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865PropT2B-1EMC01704 - B.865 Type II w/Both

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template." Item Desc - Property Disposition Costs for Type II Industrial Areas with Heavy Machinery and Tanks Breakdown of Historical Data: Item - Property Disposition Units - 1)Dollars Unit Cost - 1)830,975 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES		0000	NONE	C104S	Closure Management	Linear	750.106.30	Dollars
	Factors	3865	Items	215	Dollars per Item	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865PropT2H-1EMC01704 - B.865 Type II w/Heavy Machinery

BOE	Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template." Item Desc - Property Removal costs from Type II Industrial Areas with Heavy Machinery Breakdown of Historical Data: Item - Property Removal Units - 1)Dollars							
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)599,075
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	540.774.30	Dollars
Factors	3865	Items	155	Dollars per Item	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865PropT2T-1EMC01704 - B.865 Type II w/Tanks

BOE
Historical Data Source - Cost Estimate Derived From "Disposal Cost Model for Type I and Type II Buildings Template."
Item Desc - Property Remvoal costs from Type II Industrial Areas with Tanks
Breakdown of Historical Data:
Item - Property Disposition costs
Units - 1)Dollars
Unit Cost - 1)695,700
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	627.995.90	Dollars
Factors	3865	Items	180	Dollars per Item	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865YRDAPEN-1EMC01911 - Planning & Engineering

BOE
Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Planning & Engineering Yard Areas
Breakdown of Cost Data:
Item - Planning & Engineering Yard Areas
Units - 1)Dollars
Unit Cost - 1)850,000
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment -N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	767.28	Dollars
Factors	0.17	Dollars per Square Foot	5000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 865YRDBCHR-1EMC01911 - Characterization

BOE
Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Characterization Yard Areas
Breakdown of Cost Data:
Item - Characterization of Yard Areas
Units - 1)Dollars
Unit Cost - 1)3,050
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2,753.18	Dollars
Factors	0.61	Dollars per Square Foot	5000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865YRDCSPR-1EMC01911 - Site Preparation

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Site Preparation of Yard Areas Breakdown of Cost Data: Item - Site Preparation of Yard Areas Units - 1)Dollars Unit Cost - 1)650 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	586.74	Dollars
	Factors	0.13	Dollars per Square Foot	5000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865YRDDPYA-1EMC01911 - Physical Activities

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Physical Activities Yard Areas Breakdown of Cost Data: Item - Physical Activities Yard Areas Units - 1)Dollars Unit Cost - 1)12,250 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	11.057.86	Dollars
	Factors	2.45	Dollars per Square Foot	5000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865YRDEPMG-1EMC01911 - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Project Management Yard Areas Breakdown of Cost Data: Item - Project Management Yard Areas Units - 1)Dollars Unit Cost - 1)2,600 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2,346.97	Dollars
	Factors	0.52	Dollars per Square Foot	5000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem

Line Item 865YRDFSUS-1EMC01911 - Support Services

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Support Services Yard Areas Breakdown of Cost Data: Item - Support Services Yard Areas Units - 1)Dollars							
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)2,400
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2.166.44	Dollars
Factors	0.48	Dollars per Square Foot	5000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HR001 - HR Project Execution Plan

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Project Execution Plan Initiation and Development Breakdown of Cost Data: Item - PEP Development Units - 1)Hours 2)Dollars Unit Cost - 1)200 2)20,350 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance	Linear	22.23	Hours
Factors	25	Hours							

0.88934 [SYS 061400] .88934200 - Svstem

Resources	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	155.63	Hours
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Factors 175 Hours

0.88934 [SYS 061400] .88934200 - Svstem

Resources	A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	13.189.86	Dollars
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Factors 14500 Dollars 1.02283 -- FY00 Escalation --

0.88934 [SYS 061400] .88934200 - Svstem

Resources	A5H	SUBCONTRACTED SRVS	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	5.321.43	Dollars
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Factors 26 weeks 225 Dollars per Week 1.02283 -- FY00 Escalation --

0.88934 [SYS 061400] .88934200 - Svstem

Line Item 881HR002 - HR Work Procedures

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - HR Work Procedure Development Breakdown of Cost Data: Item - Work Procedures Units - 1)Hours 2)Dollars Unit Cost - 1)280 2)7,000 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.								
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	57.81	Hours
Factors	65	Hours							

0.88934 [SYS 061400] .88934200 - Svstem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	57.81	Hours
Factors	65	Hours						
750	STRAIGHT TIME BASE	P070	COST ESTIMATORS PLANNERS AN	C104S	Closure Management	Linear	133.40	Hours
Factors	150	Hours						
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	5,321.43	Dollars
Factors	26	Weeks	225	Dollars per Week	1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item 881HR005 - Develop Health/Safety/Emer. Plan

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Develop Health,Safety,Emergency Plans
Breakdown of Cost Data:
Item - Develop Health,Safety,Emergency Plans
Units - 1)Hours 2)Dollars
Unit Cost - 1)650 2)5,500
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours
Factors	70	Hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	311.27	Hours
Factors	350	Hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		P080	HEALTH PHYSICISTS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		P170	OTHER ADMINISTRATIVE & PROFF	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours	0.88934 [SYS 061400] .88934200 - Svstem						

Line Item 881HR006 - Collect & Develop CDPH&E Data

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Collection & Development of CDPH&E Data
Breakdown of Cost Data:
Item - Collection of Data for CDPH&E
Units - 1)Hours 2)Dollars
Unit Cost - 1)489 2)3,222.22
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	155.63	Hours
Factors	175	Hours							
							0.88934	[SYS 061400] .88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	133.40	Hours
Factors	150	Hours						
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	145.85	Hours
Factors	164	Hours						
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2,931.08	Dollars
Factors	3222.22	Dollars	1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400] .88934200 - Svstem		

Line Item 883OFFAPEN-1EMC01913 - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Planning & Engineering Office Areas Breakdown of Cost Data: Item - Planning & Engineering Office Areas Units - 1)Dollars Unit Cost - 1)3,300 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2.978.85	Dollars
Factors	0.15	Dollars per Square Foot	22000	Square Feet	1.015	-- FY00 Escalation --			
							0.88934	[SYS 061400] .88934200 - Svstem	

Line Item 883OFFBCHR-1EMC01913 - Characterization

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Characterization of Office Areas Breakdown of Cost Data: Item - Characterization of Office Areas Units - 1)Dollars Unit Cost - 1)11,440 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	10.326.68	Dollars
	Factors	0.52	Dollars per Square Foot	22000	Square Feet	1.015	-- FY00 Escalation --	0.88934	ISYS 0614001.88934200 - Svstem

Line Item 883OFFCSPR-1EMC01913 - Site Preparation

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Site Preparation of Office Areas Breakdown of Cost Data: Item - Site Preparation of Office Areas Units - 1)Dollars Unit Cost - 1)2,420 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2,184.49	Dollars
Factors	0.11	Dollars per Square Foot	22000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400] .88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Line Item 883OFFDPYA-1EMC01913 - Physical Activities

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Physical Activities for Office Areas									
	Breakdown of Cost Data:									
	Item - Physical Activities of Office Areas									
	Units - 1)Dollars									
	Unit Cost - 1)45,980									
	Unit Cost Adjustment factor - None									
	Revised Unit Cost - None									
	Basis for adjustment - N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	41.505.32	Dollars
Factors	2.09	Dollars per Square Foot	22000	Square Feet	1.015	-- FY00 Escalation --			
0.88934 [SYS 061400] .88934200 - Svsstem									

Line Item 883OFFEPMG-1EMC01913 - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Project Management for Office Areas									
	Breakdown of Cost Data:									
	Item - Project Management for Office Areas									
	Units - 1)Dollars									
	Unit Cost - 1)9,900									
	Unit Cost Adjustment factor - None									
	Revised Unit Cost - None									
	Basis for adjustment - N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	8.936.55	Dollars
Factors	0.45	Dollars per Square Foot	22000	Square Feet	1.015	-- FY00 Escalation --			
0.88934 [SYS 061400] .88934200 - Svsstem									

Line Item 883OFFFSUS-1EMC01913 - Support Services

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Support Services for Office Areas									
	Breakdown of Cost Data:									
	Item - Support Service for Office Areas									
	Units - 1)Dollars									
	Unit Cost - 1)9,020									
	Unit Cost Adjustment factor - None									
	Revised Unit Cost - None									
	Basis for adjustment - N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	8.142.19	Dollars
Factors	0.41	Dollars per Square Foot	22000	Square Feet	1.015	-- FY00 Escalation --			
0.88934 [SYS 061400] .88934200 - Svsstem									

Line Item 883PLEAPEN-1EMC01914 - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Planning & Engineering of Plenums									
	Breakdown of Cost Data:									
	Item - Planning & Engineering of Plenums									
	Units - 1)Dollars									
	Unit Cost - 1)940									
	Unit Cost Adjustment factor - None									
	Revised Unit Cost - None									
	Basis for adjustment - N/A									

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element		Skill		Department		Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	848.52	Dollars		
Factors	0.47	Dollars per Square Foot	2000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400]	.88934200	- Svstem

Line Item 883PLEBCHR-1EMC01914 - Characterization

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
	Experience Item Desc - Characterization of Plenums
	Breakdown of Cost Data:
	Item - Characterization of Plenums
	Units - 1)Dollars
	Unit Cost - 1)3,320
	Unit Cost Adjustment factor - None
	Revised Unit Cost - None
	Basis for adjustment - N/A
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element		Skill		Department		Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2,996.90	Dollars		
Factors	1.66	Dollars per Square Foot	2000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400]	.88934200	- Svstem

Line Item 883PLECSPPR-1EMC01914 - Site Preparation

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Site Preparation of Plenums Breakdown of Cost Data: Item - Site Preparation of Plenums Units - 1)Dollars Unit Cost - 1)700 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources		Cost Element		Skill		Department		Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	631.88	Dollars		
Factors	0.35	Dollars per Square Foot	2000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400]	.88934200	- Svstem

Line Item 883PLEDPYA-1EMC01914 - Physical Activities

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
	Experience Item Desc - Physical Activities for Plenums
	Breakdown of Cost Data:
	Item - Physical Areas for Plenums
	Units - 1)Dollars
	Unit Cost - 1)13,300
	Unit Cost Adjustment factor - None
	Revised Unit Cost - None
	Basis for adjustment - N/A
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element		Skill		Department		Curve	Quantity	Units
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	12,005.67	Dollars		
Factors	6.65	Dollars per Square Foot	2000	Square Feet	1.015	-- FY00 Escalation --	0.88934	[SYS 061400]	.88934200	- Svstem

Line Item 883PLEEPMG-1EMC01914 - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Project Management for Plenums									
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Breakdown of Cost Data:
Item - Project Management for Plenums
Units - 1)Dollars
Unit Cost - 1)2,840
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2.563.62	Dollars
Factors	1.42	Dollars per Square Foot	2000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Ssystem

Line Item 883PLEFSUS-1EMC01914 - Support Services

BOE Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.
Experience Item Desc - Support Services for Plenums
Breakdown of Cost Data:
Item - Support Services for Plenums
Units - 1)Dollars
Unit Cost - 1)2,620
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	2.365.03	Dollars
Factors	1.31	Dollars per Square Foot	2000	Square Feet	1.015	-- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Ssystem

Line Item 9-1EMC230025 - Waste Repackaging-CA

BOE Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Waste residing in the CA, left by former tenants, must be size reduced, packaged in crates and disposed.
Breakdown of Cost Data:
Item - Waste Repackaging in the CA
Units - 1)Hours 2)Dollars
Unit Cost - 1)2,400 2)41,400
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	177.87	Hours
Factors	200	Hours							

0.88934 [SYS 061400] .88934200 - Ssystem

Resources	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	533.61	Hours
Factors	600	Hours							

0.88934 [SYS 061400] .88934200 - Ssystem

Resources	750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	88.93	Hours
Factors	100	Hours							

0.88934 [SYS 061400] .88934200 - Ssystem

Resources	750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	266.80	Hours
Factors	300	Hours							

0.88934 [SYS 061400] .88934200 - Ssystem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	94.27	Hours
Factors	106	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	88.93	Hours
Factors	100	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C103S	Environmental Compliance	Linear	355.74	Hours
Factors	400	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	31.593.88	Dollars
Factors	35000	Dollars	1.015 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	7.512.76	Dollars
Factors	8259	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	5.821.73	Dollars
Factors	200	Hours	32 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD01-1EMC019025 - Hazards Reduction Project Execution Plan

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Develop and submit Hazards Reduction Project Execution Plan
Breakdown of Cost Data:
Item - Project Execution Plan
Units - 1)Dollars 2)Hours
Unit Cost - 1)15,180 2)187
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	53.36	Hours
Factors	60	Hours	Planning phase participation					
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	5.34	Hours
Factors	6	Hours	Planning phase participation					
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2.483.33	Dollars
Factors	13	Weeks	210 Dollars/Week Subcontractor SME		1.02283 -- FY00 Escalation --			
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	11.325.09	Dollars
Factors	12450	Dollars SubC Planning support	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD02-1EMC019025 - MOU Development

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Develop and Agree On the Memorandum of Understanding
Breakdown of Cost Data:

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Item - Memorandum of Understanding
Units - 1)Dollars 2)Hours
Unit Cost - 1)832 2)188
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	24.90Hours
Factors	28	Hours					
					0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Managemement	Linear	24.90Hours
Factors	28	Hours	MOU participation				
					0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P070	COST ESTIMATORS PLANNERS AN	C104S	Closure Management	Linear	24.90Hours
Factors	28	Hours					
					0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Managemement	Linear	756.83Dollars
Factors	832	Dollars	1.02283 -- FY00 Escalation --				
					0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD04-1EMC019025 - Data Collect Rqmts for Xition to D&D

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Data Collection Requirement for Transition to D&D. Breakdown of Cost Data: Item - Data Collection Units - 1)Dollars 2)Hours Unit Cost - 1)327 2)28 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance	Linear	8.89Hours
Factors	10	hours					
					0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	297.45Dollars
Factors	3	Weeks	109 Dollars/Week Subcontractor SME	1.02283 -- FY00 Escalation --			
					0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD05-1EMC019025 - Building Conditions Walkdowns

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Periodic walkdowns throughout Hazards Reduction process. Breakdown of Cost Data: Item - Building Walkdowns Units - 1)Dollars 2)Hours Unit Cost - 1)11,456 2)884 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter *
Baseline Devl
1EEC

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	92.49	Hours
Factors	104	Hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers	Linear	92.49	Hours
Factors	104	hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	92.49	Hours
Factors	104	hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemnt	Linear	24.90	Hours
Factors	28	Hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemnt	Linear	65.81	Hours
Factors	74	hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Managemnt	Linear	8.00	Hours
Factors	9	Hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Managemnt	Linear	32.91	Hours
Factors	37	Hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Managemnt	Linear	92.49	Hours
Factors	104	hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Managemnt	Linear	92.49	Hours
Factors	104	Hours						
0.88934 ISYS 0614001.88934200 - Svstem								
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Svcs Steelworkers	Linear	92.49	Hours
Factors	104	Hours						
0.88934 ISYS 0614001.88934200 - Svstem								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Managemnt	Linear	6.061.88	Dollars
Factors	6664	Dollars SubC SME support	1.02283 -- FY00 Escalation --					
0.88934 ISYS 0614001.88934200 - Svstem								
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C104S	Closure Managemnt	Linear	701.19	Dollars
Factors	770.84	Prime Dollars	1.02283 -- FY00 Escalation --					
0.88934 ISYS 0614001.88934200 - Svstem								
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLIGI	KE10H	Indust/Site Svcs Steelworkers	Linear	4.359.31	Dollars
Factors	104	Hours	46.08 Dollars/Hr.	1.02283 -- FY00 Escalation --				
0.88934 ISYS 0614001.88934200 - Svstem								

Line Item A0PDD06-1EMC019025 - Building Conditions Documentation

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.

Experience Item Desc -
Breakdown of Cost Data:
Item - Building Conditions Documentation
Units - 1)Dollars 2)Hours
Unit Cost - 1)484 2)5,762
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	47.14	Hours
Factors	53 hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	47.14	Hours
Factors	53 hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	47.14	Hours
Factors	53 hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Managemnt	Linear	15.12	Hours
Factors	17 HOURS							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemnt	Linear	15.12	Hours
Factors	17 hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemnt	Linear	47.14	Hours
Factors	53 hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Managemnt	Linear	4.45	Hours
Factors	5 HOURS							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Managemnt	Linear	47.14	Hours
Factors	53 HOURS							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Managemnt	Linear	47.14	Hours
Factors	53 hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Managemnt	Linear	58.70	Hours
Factors	66 HOURS							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Srvs Steelworkers	Linear	47.14	Hours
Factors	53 hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Managemnt	Linear	3.020.02	Dollars
Factors	3320 Dollars		1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200	- Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLIGI	KE10H	Indust/Site Srvs Steelworkers	Linear	2.221.57	Dollars
Factors	53 hours		46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934 [SYS 061400]	.88934200	- Svstem

Line Item A0PDD07-1EMC019025 - Reduced AB Request

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.

Experience Item Desc - Reduced Authorization Basis Request

Breakdown of Cost Data:

Item - Aurhorization Basis Reduction Request

Units - 1)Dollars 2)Hours

Unit Cost - 1)1,328 2)195

Unit Cost Adjustment factor - None

Revised Unit Cost - N/A

Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	4.45	Hours
Factors	5 HOURS					
				0.88934	ISYS 0614001 .88934200 - Svsstem	
750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	4.45	Hours
Factors	5 HOURS					
				0.88934	ISYS 0614001 .88934200 - Svsstem	
A5H	SUBCONTRACTED SRVS	0000 NONE	C104S Closure Management	Linear	1.208.01	Dollars
Factors	1328 Dollars SubC Administrative Support	1.02283 -- FY00 Escalation --				
				0.88934	ISYS 0614001 .88934200 - Svsstem	
A5H	SUBCONTRACTED SRVS	E110 QUALITY CONTROL ENGINEERS	C104S Closure Management	Linear	4.843.45	Dollars
Factors	5324.55 Prime Dollars	1.02283 -- FY00 Escalation --				
				0.88934	ISYS 0614001 .88934200 - Svsstem	

Line Item A0PDD08-1EMC019025 - Hazards Reduction Work Procedures

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Work Procedures for Hazards Reduction Breakdown of Cost Data: Item - Hazards Reduction Work Procedures Units - 1)Dollars 2)Hours Unit Cost - 1)4,480 2)140 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	7.11	Hours
Factors	8 hours					
				0.88934	ISYS 0614001 .88934200 - Svsstem	
750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	7.11	Hours
Factors	8 hours					
				0.88934	ISYS 0614001 .88934200 - Svsstem	
750	STRAIGHT TIME BASE	P160 TECHNICAL WRITERS AND EDITOR	C104S Closure Management	Linear	85.38	Hours
Factors	96 hours					
				0.88934	ISYS 0614001 .88934200 - Svsstem	
A5H	SUBCONTRACTED SRVS	0000 NONE	C104S Closure Management	Linear	4.075.21	Dollars
Factors	4480 Dollars	1.02283 -- FY00 Escalation --				
				0.88934	ISYS 0614001 .88934200 - Svsstem	

Line Item A0PDD09-1EMC019025 - Hazards Reduction Work Packages

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Hazards Reduction Work Packages Breakdown of Cost Data: Item - Work Packages Units - 1)Dollars 2)Hours Unit Cost - 1)17,732 2)368 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

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Starts In FY *

750	STRAIGHT TIME BASE	E040	ELECTRICAL ENGINEERS	C104S	Closure Management	Linear	113.84	Hours
Factors	128	hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	113.84	Hours
Factors	128	hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance	Linear	8.00	Hours
Factors	9	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance	Linear	9.78	Hours
Factors	11	hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	17.79	Hours
Factors	20	Hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	5.821.73	Dollars
Factors	6400	Dollars Subcontract SME support	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	P070	COST ESTIMATORS PLANNERS AN	C104S	Closure Management	Linear	10.308.05	Dollars
Factors	11331.9	dollars	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD10-1EMC019025 - P/R/E Prev & Corr Mtce Rqmts

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Pre-Release Evaluation & Corrective Maintenance Requirements Breakdown of Cost Data: Item - PRE and Corrective Maintenance Requirements Units - 1)Dollars 2)Hours Unit Cost - 1)3,800 2)312 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	27.57	Hours
Factors	31	hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	49.80	Hours
Factors	56	hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P070	COST ESTIMATORS PLANNERS AN	C103S	Environmental Compliance	Linear	56.92	Hours
Factors	64	hours						
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	3.456.65	Dollars
Factors	3800	Dollars - SubC Technical & Admin	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD11-1EMC019025 - Room Turnover Checklists

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Room Turnover Checklists Breakdown of Cost Data:							
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
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Activity Filter *

Starts In FY *

Item - Checklists for Room Turnover
Units - 1)Dollars 2)Hours
Unit Cost - 1)1,200 2)23
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance	Linear	7.11 Hours
Factors	8	HOURS					
					0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	0.89 Hours
Factors	1	HOUR					
					0.88934	ISYS 0614001 .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	1.091.57 Dollars
Factors	1200	Dollars SubC Technical and Admin	1.02283 -- FY00 Escalation --				
					0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item A0PDD12-1EMC019025 - Building Rad Surveys

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Building Radiological Surveys Breakdown of Cost Data: Item - Radiological Surveys for Facility Units - 1)Dollars 2)Hours Unit Cost - 1)175,252 2)1,650 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.						
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Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	355.74 Hours
Factors	400	HOURS					
					0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	613.65 Hours
Factors	690	HOURS					
					0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	49.80 Hours
Factors	56	HOURS					
					0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	125.40 Hours
Factors	141	hours					
					0.88934	ISYS 0614001 .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	14.554.33 Dollars
Factors	16000	Dollars - SubC Technical and Admin	1.02283 -- FY00 Escalation --				
					0.88934	ISYS 0614001 .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Svcs Steelworkers	Linear	144.863.30 Dollars
Factors	3456	HOURS	46.08 Dollars/Hr.	1.02283 -- FY00 Escalation --			
					0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item A0PDD13-1EMC019025 - Relocate Building Personnel

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and						
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Coordinate and implement transfer of personnel out of the Facility.
Breakdown of Cost Data:
Item - Relocation of Building Personnel
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,096 2)21,632
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	L030	UTILITY WORKER	C242S	Transportation	Linear	249.02	Hours
Factors	280	Hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	L090	GENERAL LABORER	KE10H	Indust/Site Srvs Steelworkers	Linear	311.27	Hours
Factors	350	hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	80.04	Hours
Factors	90	hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	102.27	Hours
Factors	115	hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	17.79	Hours
Factors	20	hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	17.79	Hours
Factors	20	hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	57.81	Hours
Factors	65	hours						
0.88934 [SYS 061400] .88934200 - Ssystem								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2,910.87	Dollars
Factors	3200	Dollars SubC SME and Admin sppt	1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Ssystem								
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	16,766.59	Dollars
Factors	400	hours	46.08 Dollars/Hr.	1.02283 -- FY00 Escalation --				
0.88934 [SYS 061400] .88934200 - Ssystem								

Line Item A0PDD15-1EMC019025 - Locker Room Cleanout

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Plan, coordinate and carry out the cleanout of the facility locker room.
Breakdown of Cost Data:
Item - Locker Room Clean-out
Units - 1)Hours 2)Dollars
Unit Cost - 1)441 2)6,122
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
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Starts In FY *

Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080 NUCLEAR (CRITICALITY) ENGINEER	C104S Closure Management	Linear	3.56	Hours
Factors	4 hours					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	L030 UTILITY WORKER	C242S Transportation	Linear	102.27	Hours
Factors	115 hours					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	L090 GENERAL LABORER	KE10H Indust/Site Srvs Steelworkers	Linear	102.27	Hours
Factors	115 hours					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	C104S Closure Management	Linear	33.79	Hours
Factors	38 hours					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	C104S Closure Management	Linear	3.56	Hours
Factors	4 hours					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	35.57	Hours
Factors	40 hours					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	3.56	Hours
Factors	4 hours					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	T060 D&D HAZ REDUC TECH / RISK RED	KE10H Indust/Site Srvs Steelworkers	Linear	102.27	Hours
Factors	115 hours					
				0.88934 [SYS 061400]	.88934200	- System
A5H	SUBCONTRACTED SRVS	0000 NONE	C104S Closure Management	Linear	4,730.16	Dollars
Factors	5200 Dollars SubC SME and admin sppt	1.02283 -- FY00 Escalation --				
				0.88934 [SYS 061400]	.88934200	- System
A5H	SUBCONTRACTED SRVS	T050 RADIATION CONTROL TECHNOLOGI	KE10H Indust/Site Srvs Steelworkers	Linear	838.33	Dollars
Factors	20 hours	46.08 Dollars/Hr.	1.02283 -- FY00 Escalation --			
				0.88934 [SYS 061400]	.88934200	- System

Line Item A0PDD16-1EMC019025 - Utility Locker/Supply Cabinet Cleanout

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Plan, coordinate and carry out cleanout of utility lockers and supply cabinets in the facility. Breakdown of Cost Data: Item - Locker Room Clean-Out Units - 1)Hours 2)Dollars Unit Cost - 1)667 2)2,400 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080 NUCLEAR (CRITICALITY) ENGINEER	C104S Closure Management	Linear	0.89	Hours
Factors	1 hour					
				0.88934 [SYS 061400]	.88934200	- System
750	STRAIGHT TIME BASE	L030 UTILITY WORKER	KE10H Indust/Site Srvs Steelworkers	Linear	51.58	Hours
Factors	58 hours					
				0.88934 [SYS 061400]	.88934200	- System

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
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Baseline Devl
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Starts In FY *

750	STRAIGHT TIME BASE	L090	GENERAL LABORER	KE10H	Indust/Site Srvs Steelworkers	Linear	51.58	Hours
Factors	58	hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	1.78	Hours
Factors	2	hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	12.45	Hours
Factors	14	hours						
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	3.56	Hours
Factors	4	hours						
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	2.67	Hours
Factors	3	hours						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KE10H	Indust/Site Srvs Steelworkers	Linear	409.81	Hours
Factors	10	hours	46.08	Dollars/Hr.				
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Srvs Steelworkers	Linear	51.58	Hours
Factors	58	hours						
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	2,183.15	Dollars
Factors	2400	Dollars SubC and admin sppt	1.02283	-- FY00 Escalation --				
0.88934 [SYS 061400] .88934200 - System								

Line Item A0PDD19-1EMC019025 - Combustible Loading Removal

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Plan, coordinate and implement combustible loading removal from the facility. Breakdown of Cost Data: Item - Remove Combustible Loading Units - 1)Dollars 2)Hours Unit Cost - 1)2,886 2)35,224 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	12.45	Hours
Factors	14	hours	0.88934 [SYS 061400] .88934200 - System						
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	96.05	Hours
Factors	108	hours	0.88934 [SYS 061400] .88934200 - System						
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	13.34	Hours
Factors	15	hours	0.88934 [SYS 061400] .88934200 - System						
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Srvs Steelworkers	Linear	2,241.14	Hours
Factors	2520	hours	0.88934 [SYS 061400] .88934200 - System						
	A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	10,915.75	Dollars
Factors	12000	Dollars SubC Technical & Admin Sppt	1.02283	-- FY00 Escalation --	0.88934 [SYS 061400] .88934200 - System				

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	21.125.90	Dollars
Factors	504 hours		46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svsstem

Line Item A0PDD20-1EMC019025 - Excess Chemical Removal

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Plan, coordinate and implement excess chemical removal from the facility.
Breakdown of Cost Data:
Item - Excess Chemical Removal
Units - 1)Dollars 2)Hours
Unit Cost - 1)99,885 2)859
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	9.78	Hours
Factors	11 hours							
0.88934 [SYS 061400] .88934200 - Svsstem								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	40.02	Hours
Factors	45 hours							
0.88934 [SYS 061400] .88934200 - Svsstem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	6.23	Hours
Factors	7 hours							
0.88934 [SYS 061400] .88934200 - Svsstem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	3.56	Hours
Factors	4 hours							
0.88934 [SYS 061400] .88934200 - Svsstem								
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	346.84	Hours
Factors	390 hours							
0.88934 [SYS 061400] .88934200 - Svsstem								
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	346.84	Hours
Factors	390 hours							
0.88934 [SYS 061400] .88934200 - Svsstem								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	5.094.02	Dollars
Factors	5600 Dollars SubC Technical & Admin Sppt		1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svsstem								
A5H	SUBCONTRACTED SRVS	0000	NONE	K267S	Analvtical Laboratory Services	Linear	72.771.66	Dollars
Factors	2500 Per Sample		32 Estimated required samples		1.02283 -- FY00 Escalation --			
0.88934 [SYS 061400] .88934200 - Svsstem								
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	12.994.11	Dollars
Factors	46.08 Dollars/Hr.		310 Hours		1.02283 -- FY00 Escalation --			
0.88934 [SYS 061400] .88934200 - Svsstem								

Line Item A0PDD23-1EMC019025 - Property Disposition/Management

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Declaration and disposition of excess property.
Breakdown of Cost Data:
Item - Property Disposition/Management
Units - 1)Hours 3)Dollars
Unit Cost - 1)1,200 2)24,000

WBS No: 1EEC05
Activity ID: 1EEC5002

Rocky Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

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Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.						
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Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	187.65	Hours
Factors 211 Hours - Building Manager/Property								
0.88934 [SYS 061400] .88934200 - System								
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C104S	Closure Management	Linear	533.61	Hours
Factors 600 Hours - Property Management &								
0.88934 [SYS 061400] .88934200 - System								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	21.831.50	Dollars
Factors 24000 Dollars SubC SME and Admin sppt 1.02283 -- FY00 Escalation --								
0.88934 [SYS 061400] .88934200 - System								

Line Item A0PDD25-1EMC019025 - Hazards Reduction Completion Mgmt Activities

BOE		Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Walkdowns, inspections, report generation, data turnover, issues identification and resolution for turnover to D&D. Breakdown of Cost Data: Item - Hazard Reduction activities completion and turnover to D&D. Units - 1)Dollars 2)Hours Unit Cost - 1)6,000 2)289 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.						
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Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	51.58	Hours
Factors 58 hours								
0.88934 [SYS 061400] .88934200 - System								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	35.57	Hours
Factors 40 hours								
0.88934 [SYS 061400] .88934200 - System								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	17.79	Hours
Factors 20 hours								
0.88934 [SYS 061400] .88934200 - System								
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	51.58	Hours
Factors 58 hours								
0.88934 [SYS 061400] .88934200 - System								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	5.457.87	Dollars
Factors 6000 Dollars SubC SME and Admin Sppt 1.02283 -- FY00 Escalation --								
0.88934 [SYS 061400] .88934200 - System								

Line Item A0PDD26-1EMC019025 - RMRS Closure Project Mgmt Oversight

BOE		Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Perform regular oversight and provide direction to B.865 Closure Project and Facility Management throughout the preparation for Hazards Reduction & D&D. Breakdown of Cost Data: Item - Closure Project Management & Project Oversight Units - 1)Dollars 2)Hours Unit Cost - 1)12,000 2)192						
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
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Activity Filter * *Starts In FY **

Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A						
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.						

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	60.48	Hours
Factors	68	hours					
	A5H	SUBCONTRACTED SRVS	0000 NONE	C104S Closure Management	Linear	10.91575	Dollars
Factors	12000	Dollars - Dept. SubC SME & Admin	1.02283 -- FY00 Escalation --				

0.88934 [SYS 061400] .88934200 - Svstem

0.88934 [SYS 061400] .88934200 - Svstem

Line Item A0PDD27-1EMC019025 - Hot & Cold Laundry Support

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Hot & Cold Laundry Support Breakdown of Cost Data: Item - Laundry costs for facility workers. Units - 1)Dollars 2)Lot Unit Cost - 1)110,400 2)160 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A						
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.						

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
	750	STRAIGHT TIME BASE	L030 UTILITY WORKER	KE10H Indust/Site Srvs Steelworkers	Linear	142.29	Hours
Factors	160	hours					
	A5R	MISC EXPENSES	0000 NONE	C104S Closure Management	Linear	99.65611	Dollars
Factors	110400	Dollars	1.015 -- FY00 Escalation --				

0.88934 [SYS 061400] .88934200 - Svstem

0.88934 [SYS 061400] .88934200 - System

Line Item A0PDD28-1EMC019025 - Miscellaneous Supplies/Subcontracts

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Supplies and subcontracts, based on additional labor loading required to support the preparation for Hazards Reduction. Breakdown of Cost Data: Item - Miscellaneous Supplies/Subcontracts Units - 1)Dollars Unit Cost - 1)180,000 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A						
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.						

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
	A5C	SUPPLIES	0000 NONE	C104S Closure Management	Linear	162.48280	Dollars
Factors	180000	Dollars - Supplies (Material, PPE,	1.015 -- FY00 Escalation --				

0.88934 [SYS 061400] .88934200 - Svstem

Line Item A0PDD29-1EMC019025 - Safety Support

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance						
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
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Activity Filter *

Starts In FY *

coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Safety support to maintain the facility safety envelope.
Breakdown of Cost Data:
Item - Industrial Safety and Hygiene
Units - 1)Hours
Unit Cost - 1)1,810
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	1.609.71
Factors	1810	Hours					Hours

0.88934 [SYS 061400] .88934200 - Svsystem

Line Item A0PDD30-1EMC019025 - Analytical Services Support

BOE Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Analytical Services support will be required to ensure worker safety is preserved throughout the preparation for Hazards Reduction process.
Breakdown of Cost Data:
Item - Analytical Services
Units - 1)Dollars
Unit Cost - 1)160,000
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5H	SUBCONTRACTED SRVS	0000	NONE	K267S	Analytical Laboratory Services	Linear	145.543.30
Factors	160000	Dollars for Analytical Services	1.02283 -- FY00 Escalation --				Dollars

0.88934 [SYS 061400] .88934200 - System

Line Item A0PDD31-1EMC019025 - JHA/JSA Development

BOE Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Plan, coordinate and and ensure completion of all required JHAs & JSAs.
Breakdown of Cost Data:
Item - JHA and JSA Development
Units - 1)Dollars 2)Hours
Unit Cost - 1)13,200 2)200
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	35.57
Factors	40	hours					Hours

0.88934 [SYS 061400] .88934200 - System

750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	35.57
Factors	40	hours					Hours

0.88934 [SYS 061400] .88934200 - Svsystem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
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Activity Filter
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Starts In FY *

750	STRAIGHT TIME BASE	C040	MAINTENANCE MACHINIST (incl Exp	KE10H	Indust/Site Svcs Steelworkers	Linear	35.57	Hours
Factors	40	hours						
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	35.57	Hours
Factors	40	hours						
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	12.45	Hours
Factors	14	hours						
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	12.007.32	Dollars
Factors	13200	Dollars SubC SME & Admin sppt	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD32-1EMC019025 - ASP Development

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Plan, coordinate and participate in ASP Development (AB Revision) for the facility. Breakdown of Cost Data: Item - Develop ASP Units - 1)Hours 2)Dollars Unit Cost - 1)275 2)3,360 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	13.34	Hours
Factors	15	Hours						
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	6.23	Hours
Factors	7	Hours - Participation						
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	3.056.41	Dollars
Factors	3360	Dollars SubC SME and admin sppt	1.02283	-- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - Svstem

Line Item A0PDD33-1EMC019025 - Hazard Assessment Safety Plan

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Plan, coordinate and participate in the preparation of a Hazard Assessment Safety Plan for conducting Hazards Reduction activities. RMRS ESH&Q will collect and prepare the Hazard Assessment Safety Plan. Breakdown of Cost Data: Item - Hazard Assessment Safety Plan Units - 1)Hours 2)Dollars							
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Unit Cost - 1)367 2)1,200
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management		Linear	51.23	Hours
Factors	28.8	Hours/Week	2	Weeks					
							0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management		Linear	224.11	Hours
Factors	84	Hours/Week	3	Weeks					
							0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management		Linear	12.81	Hours
Factors	2	Weeks	7.2	Hours/Week Facility Manager					
							0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management		Linear	12.81	Hours
Factors	7.2	Hours/Week	2	Weeks					
							0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management		Linear	25.61	Hours
Factors	14.4	Hours Week	2	Weeks					
							0.88934	ISYS 0614001 .88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management		Linear	1.091.57	Dollars
Factors	1200	Dollars SubC SME and admin sppt	1.02283	-- FY00 Escalation --					
							0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item A0PDD34-1EMC019025 - Rad Hazard Characterization

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Plan, coordinate and monitor completion of preliminary facility radiological characterization by facility RCTs and Rad Engineering.
Breakdown of Cost Data:
Item - Radiological Hazard Characterization
Units - 1)Hours 2)Dollars
Unit Cost - 1)104 2)8,973
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management		Linear	7.11	Hours
Factors	1	Hour/Week Rad Engineer Sppt	8	Weeks					
							0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management		Linear	49.80	Hours
Factors	56	Hours RCT Supervision							
							0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance		Linear	7.11	Hours
Factors	1	Hour/Week Planning, directing	8	Weeks					
							0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management		Linear	14.23	Hours
Factors	8	Weeks	2	Hours/Week Bldg. Shft Mar					
							0.88934	ISYS 0614001 .88934200 - Svstem	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	14.23	Hours
Factors	2	Hours/Week	Coordination, Monitoring	8	Weeks			
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	1.455.43	Dollars
Factors	1600	Dollars	SubC SME and admin sppt	1.02283	-- FY00 Escalation --			
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	6.706.64	Dollars
Factors	20	Hours/Week	Surveys	8	Weeks	46.08 Dollars/Hr.	1.02283	-- FY00 Escalation --
							0.88934	[SYS 061400] .88934200 - Svstem

Line Item A0PDD35-1EMC019025 - Facility Be Characterization

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Plan, coordinate and monitor completion of a facility Be characterization by the Industrial Hygiene department.
Breakdown of Cost Data:
Item - 1)Hours 2)Dollars
Units - 1)241 2)6,889
Unit Cost -
Unit Cost Adjustment factor -
Revised Unit Cost -
Basis for adjustment -

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	3.56	Hours
Factors	4	hours						
							0.88934	[SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	28.46	Hours
Factors	32	hours						
							0.88934	[SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	11.56	Hours
Factors	13	hours						
							0.88934	[SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	3.56	Hours
Factors	4	hours						
							0.88934	[SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	102.27	Hours
Factors	115	hours						
							0.88934	[SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	42.69	Hours
Factors	48	hours						
							0.88934	[SYS 061400] .88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	1.455.43	Dollars
Factors	1600	Dollars	SubC SME and admin sppt	1.02283	-- FY00 Escalation --			
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	4.820.39	Dollars
Factors	115	hours		46.08	Dollars/Hr.	1.02283	-- FY00 Escalation --	
							0.88934	[SYS 061400] .88934200 - Svstem

Line Item A0PDD36-1EMC019025 - Additional Reviews (Price-Anderson, ORC, etc.)

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Probable inspections, walkdowns, oversight and preparatory work to be performed in the course of preparation for Hazards Reduction.
Breakdown of Cost Data:

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Item - Additional Reviews for Hazards Reduction.
Units - 1)Dollars 2)Hours
Unit Cost - 1)33,360 2)960
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	K109S	Env Sys. Stewardship & Compliance	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	K214S	Re-Engineering	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C103S	Environmental Compliance	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	K100S	Kaiser-Hill	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	71.15	Hours
Factors	80	Hours - IH Input to reviews						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	S090	OTHER SCIENTISTS	K213S	Insurance Program Mgmt	Linear	71.15	Hours
Factors	80	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	27.289.37	Dollars
Factors	30000	Dollars	1.02283 -- FY00 Escalation --					
						0.88934	ISYS 0614001	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	3.056.41	Dollars
Factors	3360	Dollars SubC SME and admin sppt	1.02283 -- FY00 Escalation --					
						0.88934	ISYS 0614001	.88934200 - Svstem

Line Item A0PDD37-1EMC019025 - QA Reviews

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Plans and procedures created out of the preparation for Hazards Reduction process.
Breakdown of Cost Data:
Item - Quality Assurance Reviews
Units - 1)Hours
Unit Cost - 1)200
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	C104S	Closure Management	Linear	5.870.85 Dollars
Factors	6454	Prime Dollars	1.02283 -- FY00 Escalation --				

0.88934 [SYS 061400] .88934200 - Ssystem

Line Item A1DD01-1EMC019025 - D&D Planning Phase

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - D&D Planning Phase; Plans will include, but are not necessarily limited to; the Hazards Reduction, the D&D Project Execution Plan, Risk and Contingency Analysis for the D&D phase, Environmental Readiness Evaluation, Subcontract Statement of Work Development, etc. Estimate assumes that planning processes will incorporate lessons learned from B123 & the 207 Clarifier D&D planning processes as well as information specifically collected in the Hazards Reduction activities. Estimate assumes simplified planning based on advanced preparation of the facility for D&D carried out under LL and Hazards Reduction efforts. Project Close-out Reporting Breakdown of Cost Data: Item - D&D Planning Phase Units - 1)Hours 2)Dollars Unit Cost - 1)4,200 2)98,767 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A						
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.						

Resources		Cost Element	Skill	Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	C104S	Closure Management	Linear	462.46 Hours
Factors	520	Hours - Safe Shutdown Design					
					0.88934 [SYS 061400] .88934200 - Ssystem		
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	462.46 Hours
Factors	520	hours					
					0.88934 [SYS 061400] .88934200 - Ssystem		
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	160.08 Hours
Factors	180	hours					
					0.88934 [SYS 061400] .88934200 - Ssystem		
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	462.46 Hours
Factors	520	Hours - Safe Shutdown Design					
					0.88934 [SYS 061400] .88934200 - Ssystem		
750	STRAIGHT TIME BASE	E070	MECHANICAL ENGINEERS	C104S	Closure Management	Linear	462.46 Hours
Factors	520	hours					
					0.88934 [SYS 061400] .88934200 - Ssystem		
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	177.87 Hours
Factors	200	hours					
					0.88934 [SYS 061400] .88934200 - Ssystem		
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	462.46 Hours
Factors	520	hours					
					0.88934 [SYS 061400] .88934200 - Ssystem		

WBS No: 1IEEC05
Activity ID: 1IEEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1IEEC
Activity Filter *

Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C103S	Environmental Compliance	Linear	18.68	Hours
Factors	21	hours						
						0.88934	[SYS 061400]	.88934200 - System
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	56.03	Hours
Factors	63	hours Facility/Bldg./Shft Mar						
						0.88934	[SYS 061400]	.88934200 - System
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	160.08	Hours
Factors	180	hours						
						0.88934	[SYS 061400]	.88934200 - System
750	STRAIGHT TIME BASE	P150	TRAINERS	C104S	Closure Management	Linear	124.51	Hours
Factors	140	hours						
						0.88934	[SYS 061400]	.88934200 - System
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	7.277.17	Dollars
Factors	8000	Dollars SubC SME and admin sppt	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - System
A5H	SUBCONTRACTED SRVS	E040	ELECTRICAL ENGINEERS	C104S	Closure Management	Linear	21.270.57	Dollars
Factors	23383.4	dollars - Safe Shutdown Desian	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - System
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	C104S	Closure Management	Linear	15.264.22	Dollars
Factors	16780.4	Prime Dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - System
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C104S	Closure Management	Linear	21.270.57	Dollars
Factors	23383.4	dollars	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - System
A5H	SUBCONTRACTED SRVS	M050	COMPANY PRESIDENT AND VPs (G	C104S	Closure Management	Linear	40.024.41	Dollars
Factors	44000	Dollars (est) Legal support (contracts,	1.02283 -- FY00 Escalation --					
						0.88934	[SYS 061400]	.88934200 - System
A5H	SUBCONTRACTED SRVS	P030	BUYERS PROCUREMENT AND CON	C104S	Closure Management	Linear	5.730.77	Dollars
Factors	140	hours	45 estimated \$/hr - RMRS Corp	1.02283 -- FY00 Escalation --				
						0.88934	[SYS 061400]	.88934200 - System

Line Item A1DD02-1EMC019025 - Estb. Bldg Ventilation Shutdown Rqmts

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Decontamination of facility ventilation systems prior to shutdown and dismantlement of the system, leading to initiation of the D&D process; Breakdown of Cost Data: Item - Building Ventilation Shutdown Requirements Units - 1)Hours 2)Dollars Unit Cost - 1)602 2)10,763 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element	Skill	Department	Curve	Quantity	Units
	750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers
Factors	86	hours			Linear	76.48
					0.88934	[SYS 061400]
					.88934200 - System	
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management
Factors	86	hours			Linear	76.48
					0.88934	[SYS 061400]
					.88934200 - System	

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
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Activity Filter
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1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemement	Linear	76.48	Hours
Factors	86	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemement	Linear	76.48	Hours
Factors	86	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Managemement	Linear	76.48	Hours
Factors	86	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Managemement	Linear	76.48	Hours
Factors	86	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Svcs Steelworkers	Linear	76.48	Hours
Factors	86	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C103S	Environmental Compliance	Linear	6.185.59	Dollars
Factors	6800	Dollars SubC SME and Admin Sppt	1.02283 -- FY00 Escalation --					
						0.88934	ISYS 0614001	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Svcs Steelworkers	Linear	3.604.82	Dollars
Factors	86	hours	46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934	ISYS 0614001	.88934200 - Svstem

Line Item A1DD03-1EMC019025 - Develop RadCon Entry Requirements

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Perform Hazards Reduction and D&D work activities identified and incorporated into procedures and work plans to comply with Radiological Control requirements.
Breakdown of Cost Data:
Item - Develop RadCon Entry Requirements
Units - 1)Hours 2)Dollars
Unit Cost - 1)990 2)8,250
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Managemement	Linear	176.09	Hours
Factors	198	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Managemement	Linear	62.25	Hours
Factors	70	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C103S	Environmental Compliance	Linear	176.09	Hours
Factors	198	Hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Managemement	Linear	176.09	Hours
Factors	198	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Managemement	Linear	176.09	Hours
Factors	198	hours						
						0.88934	ISYS 0614001	.88934200 - Svstem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	7,504.58	Dollars
Factors	8250	Dollars SubC and admin sppt	1.02283	--	FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Ssystem

Line Item A1DD04-1EMC019025 - Develop Health/Safety/Emergency Prep. Entry Rqmts

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - Health, Safety, and Emergency Preparedness requirements to perform Hazards Reduction and D&D work activities will be identified, evaluated and incorporated into procedures and work plans to comply with site and State requirements Breakdown of Cost Data: Item - Develop Health, Safety, Emergency Preparedness Entry Requirements Units - 1)Hours 2)Dollars Unit Cost - 1)396 2)8,500 Unit Cost Adjustment factor -None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours

Factors 70 hours

0.88934 [SYS 061400] .88934200 - Ssystem

750	STRAIGHT TIME BASE	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	176.09	Hours
Factors	198	hours						

0.88934 [SYS 061400] .88934200 - Ssystem

A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	7,731.99	Dollars
Factors	8500	Dollars - SubC SME and Admin	1.02283	--	FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Ssystem

Line Item A1DD05-1EMC019025 - Develop HazMat Exposure Protection Plan

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - HazMat exposure in the course of Hazards Reduction and D&D work activities will be identified, evaluated and precautionary measures will be incorporated into procedures and work plans to comply with HazMat Exposure control requirements Breakdown of Cost Data: Item - Develop HazMat Exposure Protection Plan Units - 1)Hours 2)Dollars Unit Cost - 1)960 2)6,800 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Management	Linear	142.29	Hours

Factors 160 Hours

0.88934 [SYS 061400] .88934200 - Ssystem

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	49.80	Hours
Factors	56	hours						

0.88934 [SYS 061400] .88934200 - Ssystem

750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	142.29	Hours
Factors	160	Hours						

0.88934 [SYS 061400] .88934200 - Ssystem

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	P160	TECHNICAL WRITERS AND EDITOR	C104S	Closure Management	Linear	142.29	Hours
Factors	160	Hours						
0.88934 [SYS 061400] .88934200 - Svstem								
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	142.29	Hours
Factors	160	Hours						
0.88934 [SYS 061400] .88934200 - Svstem								
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	142.29	Hours
Factors	160	Hours						
0.88934 [SYS 061400] .88934200 - Svstem								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	6.185.59	Dollars
Factors	6800	Dollars - SubC SME and Admin Sppt	1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svstem								

Line Item A1DD06-1EMC019025 - Building Ventilation Study

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - The facility ventilation system will be studied to identify probable levels of contamination and decontamination methodologies which will be incorporated into ventilation shutdown requirements. Breakdown of Cost Data: Item - Building Ventilatio Study Units - 1)Hours 2)Dollars Unit Cost - 1)1,092 2)29,124 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E020	CIVIL ENGINEERS	C104S	Closure Management	Linear	177.87	Hours
Factors	200	Hours						
0.88934 [SYS 061400] .88934200 - Svstem								
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C103S	Environmental Compliance	Linear	176.09	Hours
Factors	198	Hours - Rad Engineering Support						
0.88934 [SYS 061400] .88934200 - Svstem								
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	88.93	Hours
Factors	100	Hours - RCT Supervision						
0.88934 [SYS 061400] .88934200 - Svstem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours
Factors	70	Hours - Group/Project Study						
0.88934 [SYS 061400] .88934200 - Svstem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	62.25	Hours
Factors	70	Hours - Closure Project						
0.88934 [SYS 061400] .88934200 - Svstem								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	9.096.46	Dollars
Factors	10000	Dollars - SubC Study Support	1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svstem								
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	9.096.46	Dollars
Factors	10000	Dollars - SubC Study Support	1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svstem								
A5H	SUBCONTRACTED SRVS	E130	OTHER ENGINEERS	C104S	Closure Management	Linear	7.497.97	Dollars
Factors	8242.74	Prime Dollars	1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svstem								

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	8,299.46	Dollars
Factors	198	Hours - Rad Surveys	46.08	Dollars/Hr.	1.02283 -- FY00 Escalation --			

0.88934 [SYS 061400] .88934200 - Svstem

Line Item A1DD07-1EMC019025 - Shutdown Building Lighting Study

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - The facility lighting system will be studied to identify on-going lighting requirements and a phased shutdown methodology which will be implemented to meet Hazards Reduction and D&D lighting requirements
Breakdown of Cost Data:
Item - Shutdown Building Lighting Study
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,488 2)29,124
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element	Skill	Department	Curve	Quantity	Units
750 STRAIGHT TIME BASE	E020 CIVIL ENGINEERS	C104S Closure Management	Linear	176.09	Hours
Factors	198	Hours			
0.88934 [SYS 061400] .88934200 - Svstem					
750 STRAIGHT TIME BASE	E040 ELECTRICAL ENGINEERS	C104S Closure Management	Linear	176.09	Hours
Factors	198	Hours - Electrical Engineering Support			
0.88934 [SYS 061400] .88934200 - Svstem					
750 STRAIGHT TIME BASE	E070 MECHANICAL ENGINEERS	C104S Closure Management	Linear	176.09	Hours
Factors	198	Hours			
0.88934 [SYS 061400] .88934200 - Svstem					
750 STRAIGHT TIME BASE	E080 NUCLEAR (CRITICALITY) ENGINEER	C104S Closure Management	Linear	176.09	Hours
Factors	198	Hours - Rad Engineering Support			
0.88934 [SYS 061400] .88934200 - Svstem					
750 STRAIGHT TIME BASE	M010 FOREMEN / TEAM LEADS / GROUP	C104S Closure Management	Linear	88.93	Hours
Factors	100	Hours - RCT Supervision			
0.88934 [SYS 061400] .88934200 - Svstem					
750 STRAIGHT TIME BASE	M020 MANAGERS (GRADE 69 - 72)	C104S Closure Management	Linear	62.25	Hours
Factors	70	Hours - Group/Project Management			
0.88934 [SYS 061400] .88934200 - Svstem					
750 STRAIGHT TIME BASE	P090 INDUSTRIAL HYGIENISTS	C104S Closure Management	Linear	176.09	Hours
Factors	198	Hours - Industrial Hygiene Support			
0.88934 [SYS 061400] .88934200 - Svstem					
750 STRAIGHT TIME BASE	S020 ENVIRONMENTAL SCIENTISTS	C104S Closure Management	Linear	177.87	Hours
Factors	200	Hours - Environmental Compliance			
0.88934 [SYS 061400] .88934200 - Svstem					
A5H SUBCONTRACTED SRVS	0000 NONE	C104S Closure Management	Linear	9,096.46	Dollars
Factors	10000	Dollars			
1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svstem					
A5H SUBCONTRACTED SRVS	0000 NONE	C104S Closure Management	Linear	9,096.46	Dollars
Factors	10000	Dollars - SubC Study Support			
1.02283 -- FY00 Escalation --					
0.88934 [SYS 061400] .88934200 - Svstem					
A5H SUBCONTRACTED SRVS	T050 RADIATION CONTROL TECHNOLOGI	KE10H Indust/Site Srvs Steelworkers	Linear	8,299.46	Dollars
Factors	198	Hours - Rad Surveys			
	46.08	Dollars/Hr.			
		1.02283 -- FY00 Escalation --			
0.88934 [SYS 061400] .88934200 - Svstem					

Line Item A1DD08-1EMC019025 - Apply Contamination Cntrl Fixative

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Application of contamination control fixative will be on-going for the purpose of preventing the mobilization of contamination throughout Hazards Reduction work activities.
Breakdown of Cost Data:
Item - Apply Contamination Control Fixative
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,695 2)33,724
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	E080	NUCLEAR (CRITICALITY) ENGINEER	C104S	Closure Managemnt	Linear	177.87	Hours
Factors	200	hours						
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemnt	Linear	209.00	Hours
Factors	235	hours						
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemnt	Linear	224.11	Hours
Factors	252	hours						
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Managemnt	Linear	224.11	Hours
Factors	252	hours						
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Managemnt	Linear	224.11	Hours
Factors	252	hours						
						0.88934 [SYS 061400]	.88934200 - Svstem	
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Srvs Steelworkers	Linear	448.23	Hours
Factors	504	hours						
						0.88934 [SYS 061400]	.88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Managemnt	Linear	9.551.28	Dollars
Factors	10500	Dollars - SubC SME and Admin Sppt	1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200 - Svstem	
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	21.125.90	Dollars
Factors	504	Hours	46.08 Dollars/Hr.		1.02283 -- FY00 Escalation --			
						0.88934 [SYS 061400]	.88934200 - Svstem	

Line Item A1DD09-1EMC019025 - Training & Qualification

BOE

Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate.
Experience Item Desc - Personnel performing Hazards Reduction, and eventually the D&D activities will require identified safety related training.
Breakdown of Cost Data:
Item - Training & Qualification
Units - 1)Hours 2)Dollars
Unit Cost - 1)1,368 2)22,810
Unit Cost Adjustment factor - None
Revised Unit Cost - N/A
Basis for adjustment - N/A

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
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WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
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Starts In FY *

750	STRAIGHT TIME BASE	C040	MAINTENANCE MACHINIST (incl Exp	KE10H	Indust/Site Srvs Steelworkers	Linear	224.11	Hours
Factors	24	Classes required	3	Hours each	3.5	FTEs		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	192.10	Hours
Factors	3	Hours/Class	24	Classes	3	FTEs		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	L060	MISSION SUP SPEC II (FLTTC. WS	KE10H	Indust/Site Srvs Steelworkers	Linear	48.02	Hours
Factors	3	Hours/Class	24	Classes	0.75	FTE		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Managemnt	Linear	352.18	Hours
Factors	5.5	FTEs	3	Hours/Class	24	Classes		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C104S	Closure Managemnt	Linear	32.02	Hours
Factors	3	Hours/Class	24	Classes	0.5	FTEs		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Managemnt	Linear	64.03	Hours
Factors	1	FTE	3	Hours/Class	24	Classes		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	R070	WASTE TREATMENT OPERATOR A	KE10H	Indust/Site Srvs Steelworkers	Linear	192.10	Hours
Factors	3	Hours/Class	24	Classes	3	FTEs		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KE10H	Indust/Site Srvs Steelworkers	Linear	96.05	Hours
Factors	3	Hours/Class	24	Classes	1.5	FTEs		
						0.88934	[SYS 061400]	.88934200 - Svstem
750	STRAIGHT TIME BASE	T100	D&D CONSTRUCTION TRADES (incl.	C260S	Filter Systems	Linear	16.01	Hours
Factors	0.25	FTE	3	Hours/class	24	Classes		
						0.88934	[SYS 061400]	.88934200 - Svstem
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	20,748.65	Dollars
Factors	495	hours	46.08	Dollars/Hr.	1.02283	-- FY00 Escalation --		
						0.88934	[SYS 061400]	.88934200 - System

Line Item A1DD10-1EMC019025 - Required Surveillances

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - The phased shutdown of facility systems will necessitate the performance of safety related surveillances prior to the completion of Hazards Reduction tasks. Breakdown of Cost Data: Item - Required Facility Surveillances Units - 1)Hours 2)Dollars Unit Cost - 1)3,475 2)133,092 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	400.20	Hours
Factors	450	hours	0.88934 [SYS 061400] .88934200 - Svstem						
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	C104S	Closure Management	Linear	400.20	Hours
Factors	450	hours	0.88934 [SYS 061400] .88934200 - Svstem						

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	55.14	Hours
Factors	62	hours						
						0.88934 [SYS 061400]	.88934200 -	System
750	STRAIGHT TIME BASE	R070	WASTE TREATMENT OPERATOR A	KE10H	Indust/Site Srvs Steelworkers	Linear	2.134.42	Hours
Factors	2400	hours						
						0.88934 [SYS 061400]	.88934200 -	System
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	20.467.03	Dollars
Factors	22500	Dollars SubC SME and admin sppt	1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200 -	System
A5H	SUBCONTRACTED SRVS	T050	RADIATION CONTROL TECHNOLOGI	KE10H	Indust/Site Srvs Steelworkers	Linear	100.599.50	Dollars
Factors	46.08	Dollars/Hr.	2400 Hours		1.02283 -- FY00 Escalation --			
						0.88934 [SYS 061400]	.88934200 -	System

Line Item A1DD11-1EMC019025 - Collect and Develop CDPH&E Data

BOE	Estimators Experience - This estimate was developed by B.865/883 Facility Manager, with over 20 years experience with deactivation & decommissioning of nuclear facilities and nuclear regulatory agencies. Facility Manager also has additional five years experience at RFETS as the Environmental Compliance coordinator and Facility Manager. Analysis of previously performed similar activities by the estimator augments estimator's experience. Equipment and processes proprietary to B.865 deem historical costs unreliable as a basis for estimate. Experience Item Desc - CDPH&E requires that specific information be gathered and developed for their analysis. Breakdown of Cost Data: Item - Collection & Development of CDPH&E Data Units - 1)Hours 2)Dollars Unit Cost - 1)792 2)4,200 Unit Cost Adjustment factor - None Revised Unit Cost - N/A Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E050	ENVIRONMENTAL ENGINEERS	C104S	Closure Management	Linear	88.04	Hours
Factors	99	hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		E120	SAFETY ENGINEERS	C104S	Closure Management	Linear	88.04	Hours
Factors	99	hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	31.13	Hours
Factors	35	hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	31.13	Hours
Factors	35	hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	88.04	Hours
Factors	99	hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		P050	COMPLIANCE INSPECTORS	C104S	Closure Management	Linear	88.04	Hours
Factors	99	hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		P090	INDUSTRIAL HYGIENISTS	C104S	Closure Management	Linear	88.04	Hours
Factors	99	hours	0.88934 [SYS 061400] .88934200 - System						
750	STRAIGHT TIME BASE		S020	ENVIRONMENTAL SCIENTISTS	C104S	Closure Management	Linear	88.04	Hours
Factors	99	hours	0.88934 [SYS 061400] .88934200 - System						
A5H	SUBCONTRACTED SRVS		0000	NONE	C104S	Closure Management	Linear	3.820.51	Dollars
Factors	4200	Dollars SubC SME and admin sppt	1.02283 -- FY00 Escalation --		0.88934 [SYS 061400] .88934200 - System				

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Line Item NPMCWM0100-1EMCWM901 - Strategy/Methodology

BOE

Line Title: Strategy/Methodology
Primary Driver(s):

The estimate is comprised of the following computations:

Cost Center R3008 (Skill Code M030 Program Manager):
Straight time: (10 hr)(36.12) = \$361.2
Cost Center I0383 (Skill Code E080Nuclear Engineers):
Straight time: (4 hr)(27.82) = \$111.28
Cost Center I3168 (Skill Code P080 Health Physicists):
Straight time: (4 hr)(25.72) = \$102.88
Cost Center S3143 (Skill Code P090 Industrial Hygienists):
Straight time: (4 hr)(26.49) = \$105.96
Cost Center R0237 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (4 hr)(23.68) = \$94.72
Cost Center I0379 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (4 hr)(23.68) = \$94.72

Subcontract Services A5H
Cost Center L3175 (Skill Code P170 Other Administrative and Professional Occupations):
Straight time: (12 hr)(46) = \$552

Total Activity: \$1422.76

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element			Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE		E080	NUCLEAR (CRITICALITY) ENGINEER		K249S	Nuclear Safetv & Licensing	Linear	3.56Hours
Factors	4	Hours							
								0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		M020	MANAGERS (GRADE 69 - 72)		C104S	Closure Management	Linear	8.89Hours
Factors	10	Hours							
								0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		P080	HEALTH PHYSICISTS		C101S	Health & Safetv	Linear	3.56Hours
Factors	4	Hours							
								0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		P090	INDUSTRIAL HYGIENISTS		C104S	Closure Management	Linear	3.56Hours
Factors	4	Hours							
								0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		P170	OTHER ADMINISTRATIVE & PROFE		C242S	Transportation	Linear	3.56Hours
Factors	4	Hours							
								0.88934 [SYS 061400] .88934200 - Svstem	
750	STRAIGHT TIME BASE		P170	OTHER ADMINISTRATIVE & PROFE		C242S	Transportation	Linear	3.56Hours
Factors	4	Hours							
								0.88934 [SYS 061400] .88934200 - Svstem	
A5R	MISC EXPENSES		0000	NONE		C104S	Closure Management	Linear	498.28Dollars
Factors	552	Dollars							
								1.015 -- FY00 Escalation --	
								0.88934 [SYS 061400] .88934200 - Svstem	

Line Item NPMCWM0101-1EMCWM901 - Procurement

BOE

Line Title: Procurement
Cost Center: L3195

The estimate is comprised of the following computations:

A5C107 Air mover \$6000
A5C115 Scaffolding \$5000
A5C115 Miscellaneous \$2000
A5C115 Portable band saw \$1000

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter * *Starts In FY* *

Total Activity: \$14,000

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

<i>Cost Element</i>		<i>Skill</i>		<i>Department</i>		<i>Curve</i>	<i>Quantity</i>	<i>Units</i>
A5C	SUPPLIES	0000	NONE	C104S	Closure Management	Linear	12.637.55	Dollars
<i>Factors</i> 14000 Dollars		1.015 -- FY00 Escalation --						

0.88934 [SYS 061400] .88934200 - Svsstem

Line Item NPMCWM0102-1EMCWM901 - Engineering Design Package

BOE

Line Title: Engineering Design Package
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center L3184 (Skill Code E130 Other Engineers):
Straight time: (240 hr)(30.03) = \$2402.40
Cost Center I3051 (Skill Code E110 Quality Control Engineers):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center L3184 (Skill Code P170 Other Professionals):
Straight time: (8 hr)(23.68) = \$189.44
Cost Center I3168 (Skill Code P080 Health Physicist):
Straight time: (8 hr)(25.72) = \$205.76
Cost Center S3143 (Skill Code P090 Industrial Hygienist):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center I0274 (Skill Code P170 Other Professionals):
Straight time: (16 hr)(23.68) = \$378.88

Total Activity: \$3600.32

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

<i>Cost Element</i>		<i>Skill</i>		<i>Department</i>		<i>Curve</i>	<i>Quantity</i>	<i>Units</i>
750	STRAIGHT TIME BASE	E110	QUALITY CONTROL ENGINEERS	C102S	Qualitv Assurance	Linear	7.11	Hours
<i>Factors</i> 8 Hours								
							0.88934 [SYS 061400] .88934200 - Svsstem	
750	STRAIGHT TIME BASE	P050	COMPLIANCE INSPECTORS	C103S	Environmental Compliance	Linear	213.44	Hours
<i>Factors</i> 240 Hours								
							0.88934 [SYS 061400] .88934200 - Svsstem	
750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C101S	Health & Safetv	Linear	7.11	Hours
<i>Factors</i> 8 Hours								
							0.88934 [SYS 061400] .88934200 - Svsstem	
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C104S	Closure Manaaement	Linear	7.11	Hours
<i>Factors</i> 8 Hours								
							0.88934 [SYS 061400] .88934200 - Svsstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	7.11	Hours
<i>Factors</i> 8 Hours								
							0.88934 [SYS 061400] .88934200 - Svsstem	
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	14.23	Hours
<i>Factors</i> 16 Hours								

0.88934 [SYS 061400] .88934200 - System

Line Item NPMCWM0103-1EMCWM901 - Authorization Basis

BOE

Line Title: Authorization Basis
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I3051 (Skill Code E110 Quality Control Engineers):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center L3184 (Skill Code P170 Other Professionals):
Straight time: (16 hr)(23.68) = \$378.88
Cost Center I3168 (Skill Code P080 Health Physicist):

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Straight time: (8 hr)(25.72) = \$205.76
Cost Center S3143 (Skill Code P090 Industrial Hygienist):
Straight time: (8 hr)(26.49) = \$211.92
Cost Center I0379 (Skill Code P170 Other Professionals):
Straight time: (8 hr)(23.68) = \$189.44
Cost Center I3081 (Skill Code E130 Other Engineers- SES/USQD):
Straight time: (16 hr)(30.03) = \$480.48
Cost Center S3172 (Skill Code E130 Other Engineers - ORC):
Straight time: (32 hr)(30.03) = \$960.96

Subcontract services: A5H
Cost Center L3195 (Skill code P070 Planners/Schedulers):
Straight time: (30 hours)(46) = \$1380

Total Activity: \$4019.36

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	14.23	Hours
Factors	16 Hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	14.23	Hours
Factors	16 Hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	28.46	Hours
Factors	32 Hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	P080	HEALTH PHYSICISTS	C101S	Health & Safety	Linear	7.11	Hours
Factors	8 Hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	P090	INDUSTRIAL HYGIENISTS	C103S	Environmental Compliance	Linear	7.11	Hours
Factors	8 Hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	7.11	Hours
Factors	8 Hours							
						0.88934 [SYS 061400]	.88934200	- Svstem
A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	1,255.31	Dollars
Factors	1380 Dollars		1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200	- Svstem
A5H	SUBCONTRACTED SRVS	E110	QUALITY CONTROL ENGINEERS	C102S	Quality Assurance	Linear	250.12	Dollars
Factors	274.96 Prime Dollars		1.02283 -- FY00 Escalation --					
						0.88934 [SYS 061400]	.88934200	- Svstem

Line Item NPMCWM0104-1EMCWM901 - Stripout

BOE

Line Title: B865 Stripout
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (80 hr)(19.32) = \$1545.60
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (160 hr)(20.23) = \$3236.80
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (80 hr)(19.32) = \$1545.60
Cost Center I4260 (Skill Code C010 Carpenters):
Straight time: (80 hr)(20.22) = \$1617.60

Total Activity: \$7945.60

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors 80 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	142.29	Hours
Factors 160 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						
750	STRAIGHT TIME BASE	L070	MISSION SUP SPEC III	KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors 80 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						
750	STRAIGHT TIME BASE	R010	CHEMICAL SYSTEMS OPERATOR (KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors 80 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						

Line Item NPMCWM0105-1EMCWM901 - Clean Closure Operations

BOE

Line Title: Clean Closure Operations
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (232 hr)(19.32) = \$4482.24
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (80 hr)(20.23) = \$1618.40
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (232 hr)(19.32) = \$4482.24
Cost Center I4260 (Skill Code C120 SOE):
Straight time: (16 hr)(19.32) = \$309.12

Contract Services:
Cost Center I3027 (2 visits by Sample Team)(\$2000 per visit) = \$4,000
Cost Center I3027 Lab Analysis (8 samples)(\$1707 per sample) = \$13,656

Total Activity: \$28,548.00

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	71.15	Hours
Factors 80 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	206.33	Hours
Factors 232 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	14.23	Hours
Factors 16 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KE10H	Indust/Site Srvs Steelworkers	Linear	206.33	Hours
Factors 232 Hours		0.88934 ISYS 0614001 .88934200 - Svsstem						
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	15.937.76	Dollars
Factors 17656 Dollars		1.015 -- FY00 Escalation --						
		0.88934 ISYS 0614001 .88934200 - Svsstem						

Line Item NPMCWM0106-1EMCWM901 - Remove T-4 and T-5

BOE

Line Title: Remove T-4 and T-5
Primary Driver(s):
The estimate is comprised of the following computations:

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Cost Center I4261 (Skill Code C120 RCT):
Straight time: (176 hr)(19.32) = \$3400.32
Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (352 hr)(19.32) = \$6800.64
Cost Center I4260 (Skill Code C080 Pipefitters):
Straight time: (208 hr)(20.23) = \$4207.84
Cost Center I4260 (Skill Code C020 Electricians):
Straight time: (32 hr)(20.62) = \$659.84
Cost Center R0237 (Skill Code P170 Other Professionals):
Straight time: (16 hr)(23.68) = \$378.88

Total Activity: \$15,447.52

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Srvs Steelworkers	Linear	28.46	Hours
Factors 32 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Srvs Steelworkers	Linear	184.98	Hours
Factors 208 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	313.05	Hours
Factors 352 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	156.52	Hours
Factors 176 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE	P170	OTHER ADMINISTRATIVE & PROFE	C242S	Transportation	Linear	14.23	Hours
Factors 16 Hours		0.88934 [SYS 061400] .88934200 - Svstem						

Line Item NPMCWM0107-1EMCWM901 - Close Secondary Containment

BOE

Line Title: Close Secondary Containment
Primary Driver(s):
The estimate is comprised of the following computations:

Cost Center I4264 (Skill Code C120 Exp Oper):
Straight time: (48 hr)(19.32) = \$927.36
Cost Center I4261 (Skill Code C120 RCT):
Straight time: (24 hr)(19.32) = \$463.68

Contract Services:
Cost Center I3027 (1 visit by Sample Team)(\$2000 per visit) = \$2,000
Cost Center I3027 Lab Analysis (1 sample)(\$1707 per sample) = \$1707

Total Activity: \$5098.04

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours
Factors 48 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	21.34	Hours
Factors 24 Hours		0.88934 [SYS 061400] .88934200 - Svstem						
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	3,346.24	Dollars
Factors 3707 Dollars		1.015 -- FY00 Escalation --						
		0.88934 [SYS 061400] .88934200 - Svstem						

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Line Item NPMCWM0108-1EMCWM901 - Closure Certification

BOE	Line Title: Closure Certification	
	Primary Driver(s):	
	The estimate is comprised of the following computations:	
	Cost Center R3008 (Skill Code M030 Program Manager):	
	Straight time: (40 hr)(36.12) = \$1444.80	
	Contracted Services: A5H410 Closure Certification \$10,000	
	Total Activity: \$11,444.80	
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.		

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C104S	Closure Management	Linear	35.57	Hours
Factors 40 Hours								
A5H SUBCONTRACTED SRVS		0000	NONE	C104S	Closure Management	Linear	9.09646	Dollars
Factors 10000 Dollars		1.02283 -- FY00 Escalation --						
		0.88934 [SYS 061400] .88934200 - System						
		0.88934 [SYS 061400] .88934200 - System						

Line Item NPMCWM0109-1EMCWM901 - Final Building Operations

BOE	Line Title: Final Building Operations		
	Primary Driver(s):		
	The estimate is comprised of the following computations:		
	Cost Center I4264 (Skill Code C120 Exp Oper):		
	Straight time: (48)(19.32) = 927.36		
	Cost Center I4261 (Skill Code C120 RCT):		
	Straight time: (24 hr)(19.32) = \$463.68		
	Total Activity: \$1391.04		
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.			

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	42.69	Hours
Factors 48 Hours								
750 STRAIGHT TIME BASE		C120	D&D SKILLED TRADES	KE10H	Indust/Site Srvs Steelworkers	Linear	21.34	Hours
Factors 24 Hours								
		0.88934 [SYS 061400] .88934200 - System						
		0.88934 [SYS 061400] .88934200 - System						

Line Item NPMCWM0110-1EMCWM901 - Engineering Documentation

BOE

Line Title: Engineering Documentation

Primary Driver(s):

The estimate is comprised of the following computations:

Cost Center I0274 (Skill Code E130 Other Engineer):

Straight time: (16)(30.03) = 480.48

Total Activity: \$480.48

Subcontract services: A5H

Cost Center L3195 (Skill Code M030 Project Manager):

Straight time: (1,680 hr)(46) = \$77,280

Total Activity: \$144,917.92

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

WBS No: 1EEC05
Activity ID: 1EEC5002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter *
Baseline Devl
1EEC

Starts In FY *

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	E130	OTHER ENGINEERS	C105S	Work Control Center	Linear	14.23	Hours
	Factors 16 Hours								
	0.88934 [SYS 061400] .88934200 - Svsstem								
	A5H	SUBCONTRACTED SRVS	0000	NONE	C104S	Closure Management	Linear	70.297.42	Dollars
Factors 77280 Dollars 1.02283 -- FY00 Escalation --									
0.88934 [SYS 061400] .88934200 - Svsstem									

Line Item SYS - Contingency And Escalation

BOE										
Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	784.368.40	Dollars
	Factors 784368 Dollars									
	ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	351.530.70	Dollars
	Factors 351531 Dollars									

WBS No: 1EEC08 Title: 800 Facilities Cluster Stab/Hazard Remov
Activity ID: 1EEC8001 Description: 800 Fac. Cluster Stab/Hazards Removal FY01

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
0001-1E5G103A3	Personnel Relocation	75.00	each	EE	8	600	7.480	15.886	0	23.366	3.483	26.848
0100	Facility Transition	1.00	each	EE	5.710	5.710	190.812	40.934	0	231.746	88.840	320.586
0100-1E5G103A2	Property Removal	1.00	each	EE	6.471	6.471	238.834	0	0	238.834	111.199	350.033
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	41.154	41.154	0	41.154
Total for Activity 1EEC8001:						12.781	437.126	56.820	41.154	535.099	203.522	738.622

Line Item 0001-1E5G103A30 - Personnel Relocation

BOE	Breakdown of Cost Data:Cost estimate is derived from Relocation requirements Planning Template, Dated 3/31/99. Item - Personnel Move Units - Each Unit Cost - \$432.35 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - None This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.
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Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	L090	GENERAL LABORER	C233S	Building Services	Linear	8.00	Hours
	Factors	9 Hrs							
							0.88934	[SYS 061400]	.88934200 - Svsstem
A59	DYNCORP I&ET		0000	NONE	C210S	Facilities Mgmt & Maintenance	Linear	163.74	Dollars
Factors	180	Dollars	1.02283 -- FY00 Escalation --						
							0.88934	[SYS 061400]	.88934200 - Svsstem
A5C	SUPPLIES		0000	NONE	C233S	Building Services	Linear	48.08	Dollars
Factors	53.26	Dollars	1.015 -- FY00 Escalation --						
							0.88934	[SYS 061400]	.88934200 - Svsstem

Line Item 0100 - Facility Transition

BOE	Estimators Experience - The estimators were consultants hired from ICF Kaiser to develop the facility transition tasks template the template was modified to exclude relocation of personnel and property disposition. The remaining costs are applied on a per building basis in each cluster. Breakdown of Cost Data: Item - Building Transition Units - Per Building, 15 buildings in this cluster. Unit Cost - Maintenance Management - 160 Hrs; Carpenters - 74 hrs; Plumbers 74hrs; Electricians - 88 hrs; Env. Compliance - 8; Fire Prot. Eng. - \$1,200; Planning - \$1,800; Safety - 8 hrs. Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - None
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WBS No: 1EEC08
Activity ID: 1EEC8001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter *
Baseline Devl
1EEC

Starts In FY *

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	C210S	Facilities Mamt & Maintenance	Linear	987.17	Hours
Factors	74 hrs	15	buildings					
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	C210S	Facilities Mamt & Maintenance	Linear	1.173.93	Hours
Factors	88 hrs	15	buildings					
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	C210S	Facilities Mamt & Maintenance	Linear	987.17	Hours
Factors	74 hrs	15	buildings					
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C103S	Environmental Compliance	Linear	106.72	Hours
Factors	8 hrs	15	buildings					
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C200S	Engineering Services	Linear	106.72	Hours
Factors	8 hrs	15	buildings					
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	C210S	Facilities Mamt & Maintenance	Linear	213.44	Hours
Factors	16 hrs	15	buildings					
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C210S	Facilities Mamt & Maintenance	Linear	2.134.42	Hours
Factors	160 hrs	15	buildings					
						0.88934	ISYS 0614001	.88934200 - Svstem
A53	E-2	0000	NONE	C105S	Work Control Center	Linear	24.560.43	Dollars
Factors	1800 \$	15	buildings		1.02283 -- FY00 Escalation --			
						0.88934	ISYS 0614001	.88934200 - Svstem
A53	E-2	0000	NONE	K252S	Engineering	Linear	16.373.62	Dollars
Factors	1200 \$	15	buildings		1.02283 -- FY00 Escalation --			
						0.88934	ISYS 0614001	.88934200 - Svstem

Line Item 0100-1E5G103A20 - Property Removal

BOE

Estimators Experience - Estimator has been working in KH property management and oversight for the past four years.
Experience Item Desc - Estimator has been managing the subcontractor efforts in excess property and property disposition for four years. Estimator developed a disposal cost model that was adapted to the buildings in this cluster
Breakdown of Cost Data:
Item - property disposition
Units - each. There are and estimated 9703 units that will require disposition.
Unit Cost - Average cost for one unit of admin. property disposal requires .20 hrs of Haz. Assessment, .35 hrs of Readiness removal, .2 Hrs of transportation, .1 Hrs of material handling, and .35 hrs admin support.
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - None

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	459.79	Hours
Factors	517 hrs							
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	KE10H	Indust/Site Svcs Steelworkers	Linear	517.60	Hours
Factors	582 hrs							
						0.88934	ISYS 0614001	.88934200 - Svstem
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	KE10H	Indust/Site Svcs Steelworkers	Linear	747.94	Hours
Factors	841 hrs							
						0.88934	ISYS 0614001	.88934200 - Svstem

WBS No: 1EEC08
Activity ID: 1EEC8001

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C101S	Health & Safety	Linear	862.66	Hours
Factors	970	hrs						
0.88934 [SYS 061400] .88934200 - System								
750	STRAIGHT TIME BASE	L090	GENERAL LABORER	KE10H	Indust/Site Svcs Steelworkers	Linear	862.66	Hours
Factors	970	hrs						
0.88934 [SYS 061400] .88934200 - System								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C210S	Facilities Mamt & Maintenance	Linear	3,020.21	Hours
Factors	3396	hrs						
0.88934 [SYS 061400] .88934200 - System								

Line Item SYS - Contingency And Escalation

BOE

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	24.954.76	Dollars
	Factors 24954.8 Dollars								
	ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	16.199.13	Dollars
	Factors 16199.1 Dollars								

Activity ID: 1EEC8002 Description: 800 Facility Cluster Stab/Hazards Removal FY02

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
0001-1E5F104A3	Personnel Relocation	35.00	each	EE	8	280	3,491	7,413	0	10,904	1,228	12,132
0001-1E6G104A3	Personnel Relocation	1.00	each	EE	8	8	100	212	0	312	35	347
0100	Facility Transition	1.00	each	EE	3,806	3,806	127,208	27,289	0	154,497	44,735	199,233
0100-1E5F104A2	Property Removal	1.00	each	EE	4,703	4,703	173,574	0	0	173,574	61,041	234,615
0100-1E6G104A2	Property Removal	1.00	each	EE	1,615	1,615	59,621	0	0	59,621	20,967	80,588
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	87,929	87,929	0	87,929
Total for Activity 1EEC8002:						10,412	363,993	34,915	87,929	486,837	128,006	614,843

Line Item 0001-1E5F104A30 - Personnel Relocation

BOE

Estimators Experience -
Experience Item Desc -
Breakdown of Cost Data: Item - Personnel Move Units - Each Unit Cost - \$432.35 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - None
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	L090	GENERAL LABORER	C233S	Building Services	Linear	8.00	Hours
Factors	9	Hrs							
							0.88934 [SYS 061400] .88934200 - System		
A59	DYNCORP I&ET		0000	NONE	C210S	Facilities Mgmt & Maintenance	Linear	163.74	Dollars
Factors	180	Dollars	1.02283 -- FY00 Escalation --						
							0.88934 [SYS 061400] .88934200 - System		
A5C	SUPPLIES		0000	NONE	C233S	Building Services	Linear	48.08	Dollars
Factors	53.26	Dollars	1.015 -- FY00 Escalation --						
							0.88934 [SYS 061400] .88934200 - System		

WBS No: 1EEC08
Activity ID: 1EEC8002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Line Item 0001-1E6G104A30 - Personnel Relocation

BOE	Estimators Experience -									
	Experience Item Desc -									
	Breakdown of Cost Data: Item - Personnel Move Units - Each Unit Cost - \$432.35 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - None									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE	L090	GENERAL LABORER	C233S	Building Services	Linear	8.00	Hours
Factors	9	Hrs							
							0.88934 [SYS 061400] .88934200 - Svstem		
A59	DYNCORP I&ET		0000	NONE	C210S	Facilities Mgmt & Maintenance	Linear	163.74	Dollars
Factors	180	Dollars	1.02283 -- FY00 Escalation --						
							0.88934 [SYS 061400] .88934200 - Svstem		
A5C	SUPPLIES		0000	NONE	C233S	Building Services	Linear	48.08	Dollars
Factors	53.26	Dollars	1.015 -- FY00 Escalation --						
							0.88934 [SYS 061400] .88934200 - Svstem		

Line Item 0100 - Facility Transition

BOE	Estimators Experience - The estimators were consultants hired from ICF Kaiser to develop the facility transition tasks template the template was modified to exclude relocation of personnel and property disposition. The remaining costs are applied on a per building basis in each cluster.									
	Breakdown of Cost Data: Item - Building Transition Units - Per Building, 10 buildings in this cluster. Unit Cost - Maintenance Management - 160 Hrs; Carpenters - 74 hrs; Plumbers 74hrs; Electricians - 88 hrs; Env. Compliance - 8; Fire Prot. Eng. - \$1,200; Planning - \$1,800; Safety - 8 hrs. Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - None									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	750	STRAIGHT TIME BASE		C010	CARPENTERS	C210S	Facilities Mamt & Maintenance	Linear	658.11	Hours
Factors	74	hrs		10	buildings	0.88934 [SYS 061400] .88934200 - Svstem				
750	STRAIGHT TIME BASE		C020	ELECTRICIANS	C210S	Facilities Mamt & Maintenance	Linear	782.62	Hours	
Factors	88	hrs		10	buildings	0.88934 [SYS 061400] .88934200 - Svstem				
750	STRAIGHT TIME BASE		C080	PLUMBERS AND PIPEFITTERS	C210S	Facilities Mamt & Maintenance	Linear	658.11	Hours	
Factors	74	hrs		10	buildings	0.88934 [SYS 061400] .88934200 - Svstem				
750	STRAIGHT TIME BASE		E050	ENVIRONMENTAL ENGINEERS	C103S	Environmental Compliance	Linear	71.15	Hours	
Factors	8	hrs		10	buildings	0.88934 [SYS 061400] .88934200 - Svstem				
750	STRAIGHT TIME BASE		E120	SAFETY ENGINEERS	C200S	Engineering Services	Linear	71.15	Hours	
Factors	8	hrs		10	buildings	0.88934 [SYS 061400] .88934200 - Svstem				

WBS No: 1EEC08
Activity ID: 1EEC8002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	C210S	Facilities Mamt & Maintenance	Linear	142.29	Hours
Factors	16 hrs		10 buildings					
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C210S	Facilities Mamt & Maintenance	Linear	1,422.95	Hours
Factors	160 hrs		10 buildings					
						0.88934 [SYS 061400] .88934200 - Svstem		
A53	E-2	0000	NONE	C105S	Work Control Center	Linear	16,373.62	Dollars
Factors	1800 \$		10 buildings		1.02283 -- FY00 Escalation --			
						0.88934 [SYS 061400] .88934200 - Svstem		
A53	E-2	0000	NONE	K252S	Engineering	Linear	10,915.75	Dollars
Factors	1200 \$		10 buildings		1.02283 -- FY00 Escalation --			
						0.88934 [SYS 061400] .88934200 - Svstem		

Line Item 0100-1E5F104A20 - Property Removal

BOE	Estimators Experience - Estimator has been working in KH property management and oversight for the past four years. Experience Item Desc - Estimator has been managing the subcontractor efforts in excess property and property disposition for four years. Estimator developed a disposal cost model that was adapted to the buildings in this cluster Breakdown of Cost Data: Item - property disposition Units - each. There are and estimated 7053 units that will require disposition. Unit Cost - Average cost for one unit of admin. property disposal requires .20 hrs of Haz. Assessment, .35 hrs of Readiness removal, .2 Hrs of transportation, .1 Hrs of material handling, and .35 hrs admin support. Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - None This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
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Resources

	Cost Element		Skill		Department	Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	C211S	Electrical Maintenance	Linear	334.39	Hours
Factors	376 hrs							
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	C214S	Building Maintenance	Linear	376.19	Hours
Factors	423 hrs							
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	C213S	HVAC Maintenance	Linear	543.39	Hours
Factors	611 hrs							
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C101S	Health & Safety	Linear	626.99	Hours
Factors	705 hrs							
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	L090	GENERAL LABORER	C270S	Property Management	Linear	626.99	Hours
Factors	705 hrs							
						0.88934 [SYS 061400] .88934200 - Svstem		
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C210S	Facilities Mamt & Maintenance	Linear	2,194.90	Hours
Factors	2468 hrs							
						0.88934 [SYS 061400] .88934200 - Svstem		

Line Item 0100-1E6G104A20 - Property Removal

BOE	Estimators Experience - Estimator has been working in KH property management and oversight for the past four years. Experience Item Desc - Estimator has been managing the subcontractor efforts in excess property and property disposition for four years. Estimator developed a disposal cost model that was adapted to the buildings in this cluster Breakdown of Cost Data: Item - property disposition Units - each. There are and estimated 2424 units that will require disposition. Unit Cost - Average cost for one unit of admin. property disposal requires .10 hrs of Haz. Assessment, .2 hrs of Readiness removal, .1 Hrs of material handling, and .35 hrs admin support. Unit Cost Adjustment factor - None Revised Unit Cost - None							
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WBS No: 1EEC08
Activity ID: 1EEC8002

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter * Starts In FY *

Basis for adjustment - None

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	C211S	Electrical Maintenance	Linear	114.73	Hours
Factors	129	hrs						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	C214S	Building Maintenance	Linear	128.95	Hours
Factors	145	hrs						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	C213S	HVAC Maintenance	Linear	186.76	Hours
Factors	210	hrs						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C101S	Health & Safety	Linear	215.22	Hours
Factors	242	hrs						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	L090	GENERAL LABORER	C270S	Property Management	Linear	215.22	Hours
Factors	242	hrs						
0.88934 [SYS 061400] .88934200 - Ssystem								
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C210S	Facilities Mgmt & Maintenance	Linear	754.16	Hours
Factors	848	hrs						
0.88934 [SYS 061400] .88934200 - Ssystem								

Line Item SYS - Contingency And Escalation

BOE

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
CON	CONTINGENCY	0000	NONE	ZDEPT	No Department	Linear	60.322.70	Dollars
Factors	60322.7	Dollars						
ESC	ESCALATION	0000	NONE	ZDEPT	No Department	Linear	27.606.15	Dollars
Factors	27606.2	Dollars						

Activity ID: 1EEC8003

Description: 800 Fac. Cluster Stab/Hazards Removal FY03

Cost Risk 2 Schedule Risk 2

Line Item	Description	Quantity	Units	BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
0100	Facility Transition	1.00	each	EE	381	381	12,721	2,729	0	15,450	4,401	19,851
0100 - tC55F104A	Property Removal	1.00	each	EE	4,703	4,703	173,574	0	0	173,574	60,057	233,631
881SPTAPEN	Planning & Engineering	1.00	each	EE	0	0	0	8,124	0	8,124	0	8,124
881SPTBCHR	Characterization	1.00	each	EE	0	0	0	27,297	0	27,297	0	27,297
881SPTCSPR	Site Preparation	1.00	each	EE	0	0	0	5,849	0	5,849	0	5,849
881SPTDPYA	Physical Activities	1.00	each	EE	0	0	0	109,838	0	109,838	0	109,838
881SPTEPMG	Project Management	1.00	each	EE	0	0	0	23,398	0	23,398	0	23,398
881SPTFSUS	Support Services	1.00	each	EE	0	0	0	21,448	0	21,448	0	21,448
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	125,852	125,852	0	125,852
Total for Activity 1EEC8003:						5.083	186,295	198,683	125,852	510,830	64,458	575,288

Line Item 0100 - Facility Transition

BOE

Estimators Experience - The estimators were consultants hired from ICF Kaiser to develop the facility transition tasks template the template was modified to exclude relocation of personnel and property disposition. The remaining costs are applied on a per building basis in each cluster.
Breakdown of Cost Data:
Item - Building Transition
Units - Per Building, 1 buildings in this cluster.
Unit Cost - Maintenance Management - 160 Hrs; Carpenters - 74 hrs; Plumbers 74hrs; Electricians - 88 hrs; Env. Compliance - 8; Fire Prot. Eng. - \$1,200;
Planning - \$1,800; Safety - 8 hrs.
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - None

WBS No: 1EEC08
Activity ID: 1EEC8003

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter *
Baseline Devl
1EEC

Starts In FY *

This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	C210S	Facilities Mamt & Maintenance	Linear	65.81	Hours
Factors	74 hrs	1	buildings					
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	C210S	Facilities Mamt & Maintenance	Linear	78.26	Hours
Factors	88 hrs	1	buildings					
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	C210S	Facilities Mamt & Maintenance	Linear	65.81	Hours
Factors	74 hrs	1	buildings					
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	E050	ENVIRONMENTAL ENGINEERS	C103S	Environmental Compliance	Linear	7.11	Hours
Factors	8 hrs	1	buildings					
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C200S	Engineering Services	Linear	7.11	Hours
Factors	8 hrs	1	buildings					
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	G010	ADMINISTRATIVE ASSISTANTS	C210S	Facilities Mamt & Maintenance	Linear	14.23	Hours
Factors	16 hrs	1	buildings					
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C210S	Facilities Mamt & Maintenance	Linear	142.29	Hours
Factors	160 hrs	1	buildings					
						0.88934	ISYS 0614001 .88934200 - Svstem	
A53	E-2	0000	NONE	C105S	Work Control Center	Linear	1.637.36	Dollars
Factors	1800 \$	1	buildings		1.02283 -- FY00 Escalation --			
						0.88934	ISYS 0614001 .88934200 - Svstem	
A53	E-2	0000	NONE	K252S	Engineering	Linear	1.091.57	Dollars
Factors	1200 \$	1	buildings		1.02283 -- FY00 Escalation --			
						0.88934	ISYS 0614001 .88934200 - Svstem	

Line Item 0100 - tC55F104A20 - Property Removal

BOE

Estimators Experience - Estimator has been working in KH property management and oversight for the past four years.
Experience Item Desc - Estimator has been managing the subcontractor efforts in excess property and property disposition for four years. Estimator developed a disposal cost model that was adapted to the buildings in this cluster
Breakdown of Cost Data:
Item - property disposition
Units - each. There are and estimated 7053 units that will require disposition.
Unit Cost - Average cost for one unit of admin. property disposal requires .20 hrs of Haz. Assessment, .35 hrs of Readiness removal, .2 Hrs of transportation, .1 Hrs of material handling, and .35 hrs admin support.
Unit Cost Adjustment factor - None
Revised Unit Cost - None
Basis for adjustment - None
This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.

Resources

Cost Element		Skill		Department		Curve	Quantity	Units
750	STRAIGHT TIME BASE	C010	CARPENTERS	C211S	Electrical Maintenance	Linear	334.39	Hours
Factors	376 hrs							
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	C020	ELECTRICIANS	C214S	Building Maintenance	Linear	376.19	Hours
Factors	423 hrs							
						0.88934	ISYS 0614001 .88934200 - Svstem	
750	STRAIGHT TIME BASE	C080	PLUMBERS AND PIPEFITTERS	C213S	HVAC Maintenance	Linear	543.39	Hours
Factors	611 hrs							
						0.88934	ISYS 0614001 .88934200 - Svstem	

WBS No: 1EEC08
Activity ID: 1EEC8003

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project
WBS Filter
Activity Filter
Baseline Devl
1EEC
*

Starts In FY *

750	STRAIGHT TIME BASE	E120	SAFETY ENGINEERS	C101S	Health & Safety	Linear	626.99	Hours
Factors	705	hrs					0.88934	[SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE	L090	GENERAL LABORER	C270S	Property Management	Linear	626.99	Hours
Factors	705	hrs					0.88934	[SYS 061400] .88934200 - Svstem
750	STRAIGHT TIME BASE	M020	MANAGERS (GRADE 69 - 72)	C210S	Facilities Mgmt & Maintenance	Linear	2,194.90	Hours
Factors	2468	hrs					0.88934	[SYS 061400] .88934200 - Svstem

Line Item 881SPTAPEN - Planning & Engineering

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Planning & Engineering of Support Buildings Breakdown of Cost Data: Item - Planning & Engineering of Support Buildings Units - 1)Dollars Unit Cost - 1)217,080 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
Resources	Cost Element	Skill	Department	Curve	Quantity	Units		
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	8,124.14	Dollars
Factors	0.25	Dollars per Square Foot	36000	Square Feet	1	Planning & Engineering	1.015	-- FY00 Escalation --
							0.88934	[SYS 061400] .88934200 - Svstem

Line Item 881SPTBCHR - Characterization

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Characterization of Support Buildings Breakdown of Cost Data: Item - Characterization of Support Buildings Units - 1)Dollars Unit Cost - 1)842,250 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
Resources	Cost Element	Skill	Department	Curve	Quantity	Units		
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	27,297.11	Dollars
Factors	0.84	Dollars per Square Foot	36000	Square Feet	1.015	-- FY00 Escalation --		
							0.88934	[SYS 061400] .88934200 - Svstem

Line Item 881SPTCSPR - Site Preparation

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization. Experience Item Desc - Site Preparation of Support Buildings Breakdown of Cost Data: Item - Site Preparation of Support Buildings Units - 1)Dollars Unit Cost - 1)6,480 Unit Cost Adjustment factor - None Revised Unit Cost - None Basis for adjustment - N/A This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.							
Resources	Cost Element	Skill	Department	Curve	Quantity	Units		
A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	5,849.38	Dollars
Factors	0.18	Dollars per Square Foot	36000	Square Feet	1.015	-- FY00 Escalation --		
							0.88934	[SYS 061400] .88934200 - Svstem

WBS No: 1EEC08
Activity ID: 1EEC8003

Rockv Flats Closure Project
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter *

Starts In FY *

Line Item 881SPTDPYA - Physical Activities

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Physical Activities - Support Buildings									
	Breakdown of Cost Data:									
	Item - Physical Activities - Support Buildings									
	Units - 1)Dollars									
	Unit Cost - 1)121,680									
	Unit Cost Adjustment factor - None									
	Revised Unit Cost - None									
	Basis for adjustment - N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	109.838.40	Dollars
Factors 3.38 Dollars per Square Foot 36000 Square Feet 1.015 -- FY00 Escalation -- 0.88934 [SYS 061400] .88934200 - Svstem									

Line Item 881SPTEPMG - Project Management

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Project Management - Support Buildings									
	Breakdown of Cost Data:									
	Item - Project Management-Support Buildings									
	Units - 1)Dollars									
	Unit Cost - 1)25,920									
	Unit Cost Adjustment factor - None									
	Revised Unit Cost - None									
	Basis for adjustment -N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	23.397.52	Dollars
Factors 0.72 Dollars per Square Foot 36000 Square Feet 1.015 -- FY00 Escalation -- 0.88934 [SYS 061400] .88934200 - Svstem									

Line Item 881SPTFSUS - Support Services

BOE	Estimators Experience - Estimate is based on Hazards Reduction/Stabilization template prepared by the Kaiser-Hill PCI organization.									
	Experience Item Desc - Support Services - Support Buildings									
	Breakdown of Cost Data:									
	Item - Support Services - Support Buildings									
	Units - 1)Dollars									
	Unit Cost - 1)23,760									
	Unit Cost Adjustment factor -None									
	Revised Unit Cost - None									
	Basis for adjustment -N/A									
	This estimate includes a project productivity/efficiency factor for committed but as yet undefined cost reductions.									

Resources	Cost Element		Skill		Department		Curve	Quantity	Units
	A5R	MISC EXPENSES	0000	NONE	C104S	Closure Management	Linear	21.447.73	Dollars
Factors 0.66 Dollars per Square Foot 36000 Square Feet 1.015 -- FY00 Escalation -- 0.88934 [SYS 061400] .88934200 - Svstem									

Line Item SYS - Contingency And Escalation

BOE										
Resources	Cost Element			Skill		Department		Curve	Quantity	Units
	CON	CONTINGENCY		0000	NONE	ZDEPT	No Department	Linear	91.386.76	Dollars
	Factors 91386.8 Dollars									
	ESC	ESCALATION		0000	NONE	ZDEPT	No Department	Linear	34.465.13	Dollars
	Factors 34465.1 Dollars									

WBS No: 1EEC08
Activity ID: 1EEC8003

Rockv Flats Closure Proiect
Baseline Cost and Basis of Estimate

Project Baseline Devl
WBS Filter 1EEC
Activity Filter * Starts In FY *

Report Totals:						
Labor Hours Total	Labor Cost Total	Materials/ Sub Cost	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cost
103.148	3.063.493	16.645.017	2.609.377	22.317.887	1.151.055	23.468.941